

# UNIVERSITY OF ILLINOIS ANNUAL REGISTER

1919-1920



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OF ILLINOIS  
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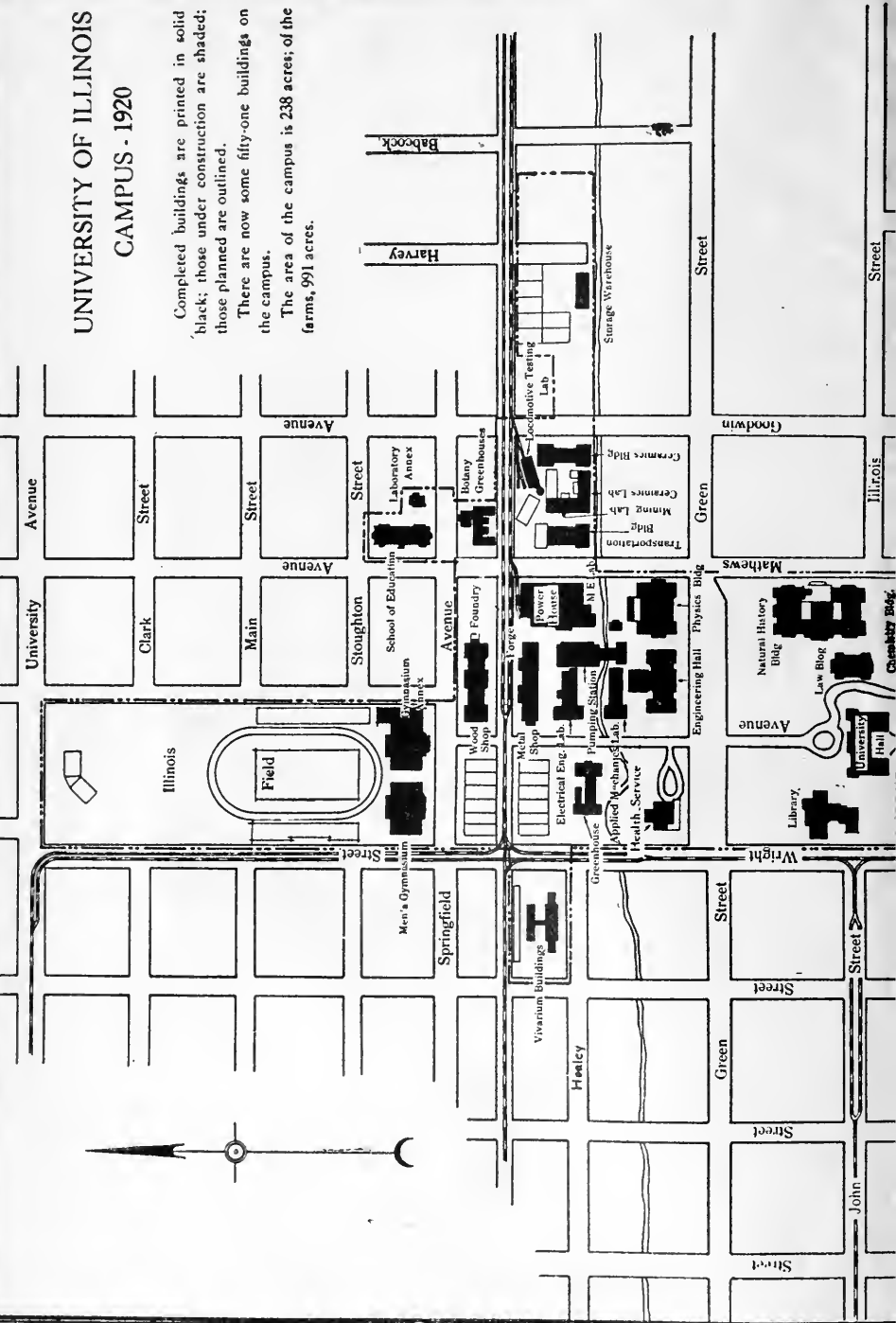
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# UNIVERSITY OF ILLINOIS CAMPUS - 1920

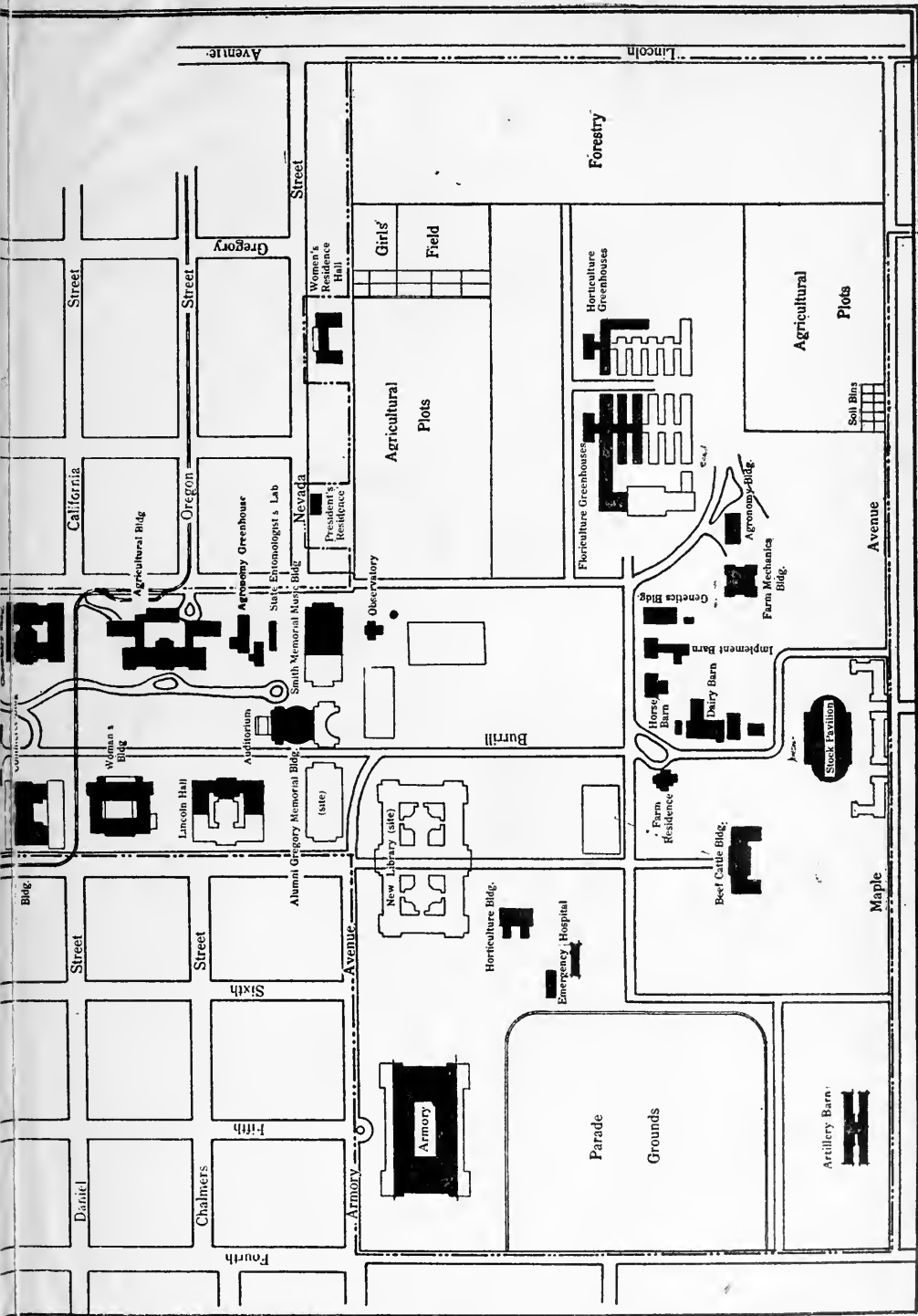
Completed buildings are printed in solid black; those under construction are shaded; those planned are outlined.

There are now some fifty-one buildings on the campus.

The area of the campus is 238 acres; of the farms, 99½ acres.







UNIVERSITY OF ILLINOIS

Avenue

University



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Learning and Labor

# University of Illinois

## ANNUAL REGISTER 1919-1920

General Announcements, 1920-1921  
Faculty and Courses, 1919-1920  
Students, 1919-1920

URBANA  
PUBLISHED BY THE UNIVERSITY  
MARCH, 1920

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# CALENDAR 1919, 1920, 1921

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# THE UNIVERSITY CALENDAR

1919-1920-1921

## FIRST SEMESTER, 1919-1920

Sept. 9, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees
Sept. 15-19, Mon.-Fri.	Entrance examinations
Sept. 17, Wed.	Scholarship examination for second nominees
Sept. 17-19, Wed.-Fri.	Entrance examinations, College of Dentistry
Sept. 22-23, Mon.-Tues.	REGISTRATION DAYS
Sept. 22, Mon., 7 p. m.	Examination for exemption from Rhetoric 1
Sept. 24, Wed., 8 a. m.	Instruction begun
4 p. m.	Freshman convocation
Sept. 24-26, Wed.-Fri.	Entrance Examinations, departments in Chicago
Sept. 27, Sat.	Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 29, Mon.	Military Drill and Hygiene lectures (Phys. Ed. 1a and 9) begun
Sept. 29-30, Mon.-Tues.	Registration begun, Colleges of Medicine and Dentistry and School of Pharmacy
Sept. 29-Oct. 2, Mon.-Thurs.	Examinations for removal of conditions, College of Medicine
Oct. 1, Wed., 8 a. m.	First semester begun, College of Medicine
8:30 a. m.	First semester begun, College of Dentistry
10:00 a. m.	First semester begun, School of Pharmacy
Oct. 4, Sat., 5 p. m.	Latest day for rebates in full and for change of study-list without fee
Oct. 6, Mon., 4 p. m.	Senate meeting
Oct. 11, Sat.	Registration closed, Colleges of Medicine and Dentistry
Oct. 17, Fri.	Assignment of vacant scholarships in agriculture and home economics
Oct. 24, Fri.	Latest day for removal of "incompletes"
Nov. 3, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses
Nov. 20-22, Thurs.-Sat.	High school conference
Nov. 22, Sat.	Home economics inspection trip
Nov. 26, Wed., 12 m.	Latest day for rebate of one-half fees
Nov. 27, Thurs.	Thanksgiving recess begun, Colleges of Medicine and Dentistry and School of Pharmacy
Dec. 1, Mon., 8 a. m.	Thanksgiving day
8:30 a. m.	Instruction resumed, College of Medicine
9 a. m.	Instruction resumed, College of Dentistry
4 p. m.	Instruction resumed, School of Pharmacy
Dec. 3, Wed.	Senate meeting
Dec. 9, Tues., 10 a. m.	Illinois Day
8 p. m.	Quarterly meeting of the Board of Trustees
	Christmas concert

Dec. 12, Fri., 8 p. m.	Iowa-Minnesota-Illinois debates Junior promenade
Dec. 20, Sat., 11 a. m.	<b>Holiday recess begun<sup>1</sup></b>
Dec. 23, Tues., 5 p. m.	Holiday recess begun, College of Dentistry and School of Pharmacy
6 p. m.	Holiday recess begun, College of Medicine
Dec. 31, Wed., 5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineering

**1920**

Jan. 5, Mon., 8 a. m.	Instruction resumed, College of Medicine
8:30 a. m.	Instruction resumed, College of Dentistry
9 a. m.	Instruction resumed, School of Pharmacy
1 p. m.	<b>Instruction resumed</b>
Jan. 12-24	Short courses in agriculture and home economics
Jan. 24, Thurs.	<b>Semester examinations begun</b>
Feb. 2, Mon., 4 p. m.	Senate meeting
Feb. 2-6, Mon.-Fri.	Semester examinations, Colleges of Medicine and Dentistry and School of Pharmacy
Feb. 4-7, Wed.-Sat.	Entrance examinations
Feb. 5, Thurs.	<b>Semester examinations ended</b>

**SECOND SEMESTER, 1919-1920**

Feb. 9, Mon., 8 a. m.	Second semester begun, College of Medicine
8:30 a. m.	Second semester begun, College of Dentistry
10 a. m.	Second semester begun, School of Pharmacy
FEB. 9-10, MON.-TUES.	<b>REGISTRATION DAYS</b>
Feb. 11, Wed., 8 a. m.	Instruction begun
Feb. 12, Thurs.	Lincoln Day
Feb. 20, Fri.	Military Ball
Feb. 21, Sat.	Latest day for rebates in full and for change of study-list without fee
Feb. 22, Sun.	Washington day
Mar. 2, Tues.	University day
Mar. 5, Fri.	Annual band concert
Mar. 9, Tues.	Annual meeting of the Board of Trustees
Mar. 12, Fri.	Latest day for removal of "incompletes" and for removal by seniors of first semester failures
Mar. 26, Fri.	Michigan-Illinois-Wisconsin debate
Apr. 1, Thurs., 11 a. m.	<b>Easter Recess begun</b>
5 p. m.	Latest day for filing of completed theses by candidates for professional degrees in engineering
6 p. m.	Easter recess, College of Medicine
Apr. 5, Mon., 8 a. m.	Instruction resumed, Colleges of Medicine and Dentistry
9 a. m.	Instruction resumed, School of Pharmacy
4 p. m.	Senate meeting
Apr. 6, Tues., 1 p. m.	<b>Instruction resumed</b>

<sup>1</sup>Because of the shortage of coal, the Holiday Recess in 1919 began on December 12.

Apr. 10, Sat., 5 p. m.	Latest day for rebates of one-half fees
May 7, Fri.	Northern Oratorical League contest
May, between 15 and 31	Hazelton prize drill
	Annual inspection
	Company competitive drill
May 15, Sat., 12 m.	Latest day for the receipt by the Dean of the Graduate School of certified copies of doctor's theses
May 20-22, Thurs.-Sat.	Public school art exhibit
May 21, Fri.	Interscholastic oratorical contest
May 22, Sat.	Interscholastic athletic meet
May 28, Fri.	Military day
May 30, Sun.	Memorial day
May 31, Mon.	Final examinations begun, Colleges of Medicine and Dentistry and School of Pharmacy
June 3, Thurs., 8 a. m.	Final examinations begun
June 4, Fri.	Final examinations ended, Colleges of Medicine and Dentistry and School of Pharmacy
June 5, Sat.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 7, Mon.	Latest day for acceptance of undergraduate theses
4 p. m.	Senate meeting
June 10, Thurs.	<b>Final examinations ended</b>
June 11, Fri.	Class day, College of Dentistry
	Class day and alumni meeting, College of Medicine
June 13, Sun.	Baccalaureate address
June 14, Mon.	Class day
8:30 p. m.	Senior ball
June 15, Tues.	Alumni day
10 a. m.	Quarterly meeting of the Board of Trustees
JUNE 16, WED.	<b>FORTY-NINTH ANNUAL COMMENCEMENT</b>

### SUMMER SESSION, 1920

JUNE 21, MON.	REGISTRATION DAY
June 22, Tues., 8 a. m.	Instruction begun
June 28, Mon., 5 p. m.	Latest day for rebates in full
July 17, Sat., 12 m.	Latest day for rebates of one-half fees
Aug. 13-14, Fri.-Sat.	Final examinations

### FIRST SEMESTER, 1920-1921

Sept. 14, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees.
Sept. 13-17, Mon.-Fri.	Entrance examinations.
Sept. 15, Wed.	Scholarship examination for second nominees.
Sept. 15-17, Wed.-Fri.	Entrance examinations, Chicago Professional Schools
SEPT. 20-21, MON.-TUES.	REGISTRATION DAYS
Sept. 21-23, Tues.-Thurs.	Examinations for removal of conditions, Chicago Professional Schools
Sept. 22, Wed., 8 a. m.	Instruction begun
4 p. m.	Freshman convocation
Sept. 22-24, Wed.-Fri.	Entrance Examinations, departments in Chicago
Sept. 24-25, Fri.-Sat.	Registration begun, Chicago Professional Schools

Sept. 25, Sat.	Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 27, Mon.	Military Drill and Hygiene lectures (Phys. Ed. 1a and 9) begun
Sept. 27, Mon., 8 a. m.	First semester begun, Chicago Professional Schools
Oct. 2, Sat., 5 p. m.	Latest day for rebates in full and for change of study-list without fee
	Registration closed, Colleges of Medicine and Dentistry
Oct. 4, Mon., 4 p. m.	Senate meeting
Oct. 15, Fri.	Assignment of vacant scholarships in agriculture and home economics
Oct. 21-23, Thurs.-Sat.	Inspection trips, Architecture and Architectural Engineering
Oct. 22, Fri.	Latest day for removal of "incompletes"
Nov. 1, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses
Nov. 18-20, Thurs.-Sat.	High school conference
	Home economics inspection trip
Nov. 20, Sat.	Latest day for rebate of one-half fees
Nov. 22-24, Mon.-Wed.	Inspection trips, College of Engineering (except Architecture and Architectural Engineering)
Nov. 24, Wed., 12 m.	Thanksgiving recess begun, Chicago Professional Schools
Nov. 25, Thurs.	Thanksgiving Day
Nov. 29, Mon., 8 a. m.	Instruction resumed, Chicago Professional Schools
Dec. 3, Fri.	Illinois Day
Dec. 6, Mon., 4 p. m.	Senate meeting
Dec. 14, Tues., 10 a. m.	Quarterly meeting of the Board of Trustees
	8 p. m.
Dec. 10 Fri., 8 p. m.	Christmas concert
	Iowa-Minnesota-Illinois debates
	Junior promenade
<b>Dec. 22, Wed., 11 a. m.</b>	<b>Holiday recess begun</b>
Dec. 23, Thurs., 6 p. m.	Holiday recess begun, Chicago Professional Schools
Dec. 31, Fri., 5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineering

**1921**

<b>Jan. 3, Mon., 8 a. m.</b>	Instruction resumed, Chicago Professional Schools
1 p. m.	<b>Instruction resumed</b>
Jan. 10-22	Short courses in agriculture and home economics
Jan. 27, Thurs.	Semester examinations begun
Feb. 7, Mon., 4 p. m.	Senate meeting
Jan. 31-Feb. 4, Mon.-Fri.	Semester examinations, Chicago Professional Schools
Feb. 2-5, Wed.-Sat.	Entrance examinations
Feb. 3, Thurs.	Semester examinations ended

**SECOND SEMESTER, 1920-1921**

Feb. 7, Mon., 8 a. m.	Second semester begun, Chicago Professional Schools
FEB. 7-8, MON.-TUES.	REGISTRATION DAYS
Feb. 9, Wed., 8 a. m.	Instruction begun

Feb. 12, Sat.	Lincoln Day
Feb. 19, Sat.	Last day for rebates in full and for change of study-list without fee
Feb. 22, Tues.	Washington Day
Feb. 25, Fri.	Military Ball
Mar. 2, Wed.	University Day
Mar. 4, Fri.	Annual Band Concert
Mar. 8, Tues.	Annual meeting of the Board of Trustees
Mar. 11, Fri.	Latest day for removal of "incompletes" and for removal by seniors of first semester failures
Mar. 18, Fri.	Michigan-Illinois-Wisconsin debate
Mar. 23, Wed., 6 p. m.	Easter recess begun, Chicago Professional Schools
<b>Mar. 24, Thurs., 11 a. m.</b>	<b>Easter recess begun</b>
Mar. 28, Mon., 8 a. m.	Instruction resumed, Chicago Professional Schools
<b>Mar. 29, Tues., 1 p. m.</b>	<b>Instruction resumed</b>
Apr. 1, Fri., 5 p. m.	Latest day for filing of completed theses by candidates for professional degrees in engineering.
Apr. 4, Mon., 4 p. m.	Senate meeting.
Apr. 9, Sat., 5 p. m.	Latest day for rebates of one-half fees
May 6, Fri.	Northern Oratorical League contest
May, between 15 and 31	Hazelton prize drill
	Annual inspection
	Company competitive drill
May 14, Sat., 12 m.	Latest day for the receipt by the Dean of the Graduate School of certified copies of doctors' theses
May 19-21	Public school art exhibit
May 20, Fri.	Interscholastic oratorical contest
May 21, Sat.	Interscholastic athletic meet
May 28, Sat.	Military Day
May 30, Mon.	Memorial Day
May 31, Tues.-June 10, Fri.	Final examinations, Chicago Professional Schools
June 2, Thurs., 8 a. m.	Final examinations begun
June 4, Sat.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 6, Mon.	Latest day for acceptance of under-graduate theses
	Senate meeting
June 9, Thurs.	Final examinations ended
June 10, Fri.	Class day, College of Dentistry
	Class day, and alumni meeting, College of Medicine
June 12, Sun.	Baccalaureate address
June 13, Mon.	Class day
	Senior ball
	Alumni day
June 14, Tues.	Quarterly meeting of the Board of Trustees
	<b>FIFTIETH ANNUAL COMMENCEMENT</b>
June 15, Wed.	

# THE BOARD OF TRUSTEES

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## MEMBERS EX OFFICIO

### The Governor of Illinois

HON. FRANK O. LOWDEN.....*Springfield*

### The Superintendent of Public Instruction

HON. FRANCIS G. BLAIR.....*Springfield*

## ELECTED MEMBERS

### (Term 1915-1921)

ROBERT F. CARR.....*2005 McCormick Building, Chicago*

LAURA B. EVANS.....*Taylorville*

ROBERT R. WARD.....*Benton*

### (Term 1917-1923)

WILLIAM L. ABBOTT.....*72 West Adams Street, Chicago*

MARY E. BUSEY.....*Urbana*

OTIS W. HOIT.....*Geneseo*

### (Term 1919-1925)

JOHN M. HERBERT.....*Murphysboro*

CAIRO A. TRIMBLE.....*Princeton*

MARGARET D. BLAKE.....*25 E. Walton Place, Chicago*

## OFFICERS OF THE BOARD

ROBERT F. CARR, 2005 McCormick Building, Chicago.....*President*

HARRISON E. CUNNINGHAM, Urbana.....*Secretary*

HAZEN S. CAPRON, Champaign.....*Treasurer*

LLOYD MOREY, Urbana.....*Comptroller*

# COMMITTEES OF THE BOARD OF TRUSTEES

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## EXECUTIVE COMMITTEE

Robert F. Carr, Chairman; William L. Abbott, Otis W. Hoit

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*Buildings and Grounds*—William L. Abbott, Chairman; Laura B. Evans, Robert F. Carr, Robert R. Ward, Margaret Day Blake.

*Finance*—Cairo A. Trimble, Chairman; Mary E. Busey, Otis W. Hoit, Robert R. Ward, John M. Herbert.

*Engineering*—Otis W. Hoit, Chairman; William L. Abbott, Cairo A. Trimble.

*Agriculture*—Robert R. Ward, Chairman; Otis W. Hoit, John M. Herbert.

*College of Medicine and School of Pharmacy*—Robert F. Carr, Chairman; William L. Abbott, Margaret Day Blake.

*Students' Welfare*—Laura B. Evans, Chairman; Mary E. Busey, Margaret Day Blake.

*Instruction*—Francis G. Blair, Chairman; Robert R. Ward, John M. Herbert.

*Library*—Mary E. Busey, Chairman; Laura B. Evans, Cairo A. Trimble.

# ADVISORY BOARDS

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## COLLEGE OF LAW

JOHN G. DRENNAN.....	<i>Chicago</i>
WILLIAM R. HUNTER.....	<i>Kankakee</i>
WALTER C. LINDLEY.....	<i>Danville</i>
GEORGE T. PAGE.....	<i>Peoria</i>
PETER P. SCHAEFER.....	<i>Champaign</i>

## SCHOOL OF PHARMACY

J. A. SELL.....	<i>Springfield</i>
W. U. SISSON.....	<i>Chicago</i>
ALBERT ZIMMERMAN.....	<i>Peoria</i>
JOHN H. HARSCH.....	<i>Peoria</i>
C. D. ROARK.....	<i>Macomb</i>

## DEPARTMENT OF CERAMIC ENGINEERING

W. BUTTERWORTH.....	<i>Danville</i>
W. W. GATES.....	<i>Monmouth</i>
W. D. GATES.....	<i>Chicago</i>
W. STIPES.....	<i>Champaign</i>
THEODORE G. DICKINSON.....	<i>Chicago</i>

## COLLEGE OF ENGINEERING FOR THE RAILWAY INDUSTRIES OF ILLINOIS

A. H. AISHTON.....	<i>Chicago</i>
C. H. MARKHAM.....	<i>Chicago</i>
W. G. BIERD.....	<i>Chicago</i>
MALE HOLDEN.....	<i>Chicago</i>
W. B. STOREY.....	<i>Chicago</i>



# ADMINISTRATIVE OFFICERS

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## President of the University

EDMUND JANES JAMES, Ph.D., LL. D. (on leave of absence)

DAVID KINLEY, Ph.D., LL.D., ACTING PRESIDENT

## THE COUNCIL OF ADMINISTRATION

EDMUND JANES JAMES, Ph.D., LL.D., *President* (on leave of absence)

DAVID KINLEY, Ph.D., LL.D., *Acting President*, and *Professor of Economics*

EUGENE DAVENPORT, M.Agr., LL.D., *Dean of the College of Agriculture, Director of Agricultural Extension Service, and Professor of Threnmatology*

THOMAS ARKLE CLARK, B.L., *Dean of Men and Professor of Rhetoric*

KENDRIC CHARLES BABCOCK, B.Lit., Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences.*

FREDERICK BROWN MOOREHEAD, A.B., D.D.S., M.D., *Dean of the College of Dentistry and Professor of Oral Surgery and Pathology*

ALBERT CHAUNCEY EYLESHYMER, Ph.D., M.D., *Dean of the College of Medicine, Professor of Anatomy, and Head of the Department of Anatomy*

HENRY WINTHROP BALLANTINE, A.B., LL.B., *Dean of the College of Law and Professor of Law*

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CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Dean of the College of Education*

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CHARLES MANFRED THOMPSON, Ph.D., *Dean of the College of Commerce and Business Administration and Professor of Economics*

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---

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 HERBERT LESOURD CREEK,<sup>2</sup> Ph.D., *Assistant Dean*

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PHINEAS LAWRENCE WINDSOR, Ph.B., *Director*

<sup>1</sup>Resigned, January 31, 1920.

<sup>2</sup>Second Semester.

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FRANK COLLINS BAKER, B.S., *Curator of the Museum of Natural History*  
ARTHUR STANLEY PEASE, Ph.D., *Professor of the Classics and Curator of the Museum of Classical Art and Archeology*  
NEIL CONWELL BROOKS, Ph.D., *Assistant Professor of German and Curator of the Museum of European Culture*  
ALBERT TEN EYCK OLMEAD, Ph.D., *Professor of History and Curator of the Oriental Museum.*

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KENDRICK CHARLES BABCOCK, B.Lit., Ph.D., LL.D., *Dean*  
HOWARD VERNON CANTER, Ph.D., *Assistant Dean*

### THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

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### THE COLLEGE OF LAW

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### THE SCHOOL OF MUSIC

JOHN LAWRENCE ERB, F.A.G.O., *Director*

### THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION<sup>1</sup>

CHARLES<sup>5</sup> RUSS RICHARDS, M.E., M.M.E., *Director*

<sup>1</sup> This School has been inactive during the year 1919-20.

**THE SUMMER SESSION, 1920**

CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Director*

**THE COLLEGE OF MEDICINE**

ALBERT CHAUNCEY EYCLESHYMER, B.S., Ph.D., M.D., *Dean*

WILLIAM HENRY BROWNE, *Secretary*

**THE COLLEGE OF DENTISTRY**

FREDERICK BROWN MOOREHEAD, A.D., D.D.S., M.D., *Dean*

NEWTON GEORGE THOMAS, A.M., D.D.S., *Secretary*

**THE SCHOOL OF PHARMACY**

WILLIAM BAKER DAY, Ph.G., *Dean and Secretary*

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CHARLES WESLEY ROLFE, M.S., *Professor of Geology, Emeritus*  
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CHARLES MELVILLE MOSS, Ph.D., *Professor of the Greek Language and Literature, Emeritus*  
DANIEL KILHAM DODGE, Ph.D., *Professor of the English Language and Literature*  
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EVARTS BOUTELL GREENE, Ph.D., *Professor of History*  
THOMAS ARKLE CLARK, B.L., *Professor of Rhetoric and Dean of Men*  
ARTHUR HILL DANIELS, Ph.D., *Professor of Philosophy, Acting Dean of the Graduate School*  
NEWTON ALONZO WELLS, M.P., *Professor of Architectural Decoration, Emeritus*  
ISABEL BEVIER, Ph.M., *Professor of Home Economics and Director of the Courses in Home Economics*  
CYRIL GEORGE HOPKINS,<sup>2</sup> M.S., Ph.D., *Professor of Agronomy*  
MORGAN BROOKS, Ph.B., M.E., *Professor of Electrical Engineering*  
GEORGE A HUFF, B.S., *Director of Physical Education for Men*  
JAMES McLAREN WHITE, B.S., *Professor of Architectural Engineering and Supervising Architect*  
HERBERT WINDSOR MUMFORD,<sup>3</sup> B.S., *Professor of Animal Husbandry*  
MAURICE HENRY ROBINSON, Ph.D., *Professor of Industry and Transportation*  
JOSEPH CULLEN BLAIR, M.S., D.Sc., *Professor of Horticulture and Head of the Department*  
HORACE ADELBERT HOLLISTER, A.M., *Professor of Education and High School Visitor*  
OLIVER ALBERT HARKER, A.M., LL.D., *Professor of Law and Legal Counsel*  
EDWARD JOHN LAKE, B.S., *Assistant Professor of Art and Design and Acting Head of the Department of Art and Design*  
THOMAS EDWARD OLIVER, Ph.D., *Professor of Romance Languages*  
WILBER JOHN FRASER, M.S., *Professor of Dairy Farming*  
FREDERICK GREEN, A.M., LL.B., *Professor of Law*  
HARRY SANDS GRINDLEY, D.Sc., *Professor of Animal Nutrition*  
JAMES WILFORD GARNER, Ph.D., *Professor of Political Science*  
EDGAR JEROME TOWNSEND, Ph.D., L.L.D., *Professor of Mathematics*  
EDWARD BARTOW, Ph.D., *Professor of Sanitary Chemistry and Director of the State Water Survey*

<sup>1</sup> The Senate is composed of all University officers of full professorial rank and all others in charge of independent departments of instruction. The order is that of seniority. For index of names, see page 587

<sup>2</sup> Deceased.

<sup>3</sup> On leave of absence, March, 1920—February, 1921.

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor of Chemistry and Director of the Chemical Laboratory*

ERNEST RITSON DEWSNUP,<sup>1</sup> A.M., *Professor of Transportation*

GEORGE ABRAM MILLER, Ph.D., *Professor of Mathematics*

EDWARD CARY HAYES, Ph.D., *Professor of Sociology*

JULIUS GOEBEL, Ph.D., *Professor of German*

GEORGE ALFRED GOODENOUGH, M.E., *Professor of Thermodynamics*

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director of the Library and the Library School*

BOYD HENRY BODE, Ph.D., *Professor of Philosophy*

HENRY BALDWIN WARD, Ph.D., *Professor in Zoology*

HARRY HARKNESS STOEK, B.S., E.M., *Professor of Mining Engineering and Head of the Department*

STUART PRATT SHERMAN, Ph.D., *Professor of English and Chairman of Department of English*

CHARLES RUSS RICHARDS M.E., M.M.E., *Acting Professor of Mechanical Engineering and Head of the Department of Mechanical Engineering, Dean of the College of Engineering, Director of the Engineering Experiment Station*

JOHN WILLIAM LLOYD, Ph.D., *Professor of Olericulture*

CHARLES SPENCER CRANDALL, M.S., *Professor of Pomology*

EDWARD HARRIS DECKER,<sup>2</sup> A.B., LL.B., *Professor of Law*

JOHN ARCHIBALD FAIRLIE, Ph.D., *Professor of Political Science*

JEREMIAH GEORGE MOSIER, B.S., *Professor of Soil Physics*

JOHN NORTON POMEROY,<sup>2</sup> A.M., LL.B., *Professor of Law*

LOUIE HENRIE SMITH, Ph.D., *Professor of Plant Breeding*

BRUCE WILLET BENEDICT, B.S., *Manager of Shop Laboratories in the Department of Mechanical Engineering*

WILLIAM EDWARD BURGE, Ph.D., *Assistant Professor of Physiology*

ERNEST LUDLOW BOGART,<sup>2</sup> Ph.D., *Professor of Economics*

WILLIAM GREEN HALE, B.S., LL.B., *Professor of Law*

MADISON BENTLEY, Ph.D., *Professor of Psychology*

CHARLES FREDERICK HOTTES, Ph.D., *Professor of Plant Physiology*

HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology*

KENDRIC CHARLES BARCOCK, B.Lit., Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences*

WILLIAM TRELEASE, D.Sc., LL.D., *Professor of Botany and Acting Head of the Department of Botany*

JOHN STERLING KINGSLEY, D.Sc., *Professor of Zoology*

CLARENCE WALWORTH ALVORD, Ph.D., *Professor of History*

WILLIAM SHIRLEY BAYLEY, Ph.D., *Professor of Geology*

WALTER CASTELLA COFFEY, M.S., *Professor of Sheep Husbandry*

LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History*

OTTO EDUARD LESSING, Ph.D., *Professor of German*

ELLERY BURTON PAINE, M.S., E.E., *Professor of Electrical Engineering and Acting Head of the Department of Electrical Engineering*

FRANK SMITH, A.M., *Professor of Systematic Zoology*

JOEL STEBBINS, Ph.D., *Professor of Astronomy*

EDWARD WIGHT WASHBURN, Ph.D., *Professor of Ceramic Chemistry and Head of the Department of Ceramic Engineering*

LORING HARVEY PROVINE, B.S., A.E., *Professor of Architectural Engineering and Acting Head of the Department of Architecture*

FRANK LINCOLN STEVENS, Ph.D., *Professor of Plant Pathology*

<sup>1</sup> Resigned. February, 1920.

<sup>2</sup> On leave of absence.

- HERBERT FISHER MOORE, B.S., M.M.E., *Research Professor of Engineering Materials*  
 JOHN LAWRENCE ERB, F.A.G.O., *Director of the School of Music and University Organist*  
 FREDERICK HAYNES NEWELL, B.S., D.Eng., *Professor of Civil Engineering and Head of the Department of Civil Engineering*  
 KENNETH MCKENZIE, Ph.D., *Professor of Romance Languages and Head of the Department of Romance Languages*  
 WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of the Classics*  
 JOHN DRISCOLL FITZ-GERALD, Ph.D., *Professor of Spanish*  
 CHARLES ALTON ELLIS, A.B., *Professor of Structural Engineering*  
 LOUISE FREER, A.B., B.S., *Director of Physical Education for Women*  
 OSCAR ADOLPH LEUTWILER, M.E., *Professor of Machine Design*  
 ARTHUR STANLEY PEASE, Ph.D., *Professor of the Classics and Curator of the Museum of Classical Art and Archeology*  
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 ALBERT HOWE LYBYER, Ph.D., *Professor of History*  
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 WILLIAM LEONIDAS BURLISON, Ph.D., *Professor of Crop Production and Head of the Department of Agronomy*  
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 FRED HENRY RANKIN, B.S., *Superintendent of Agricultural Extension and Assistant to the Dean of the College of Agriculture*  
 JEROME EDWARD READHIMER, B.S., *Professor of Soils (Extension)*  
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 HIRAM THOMPSON SCOVILL, A.B., C.P.A., *Professor of Accountancy and Head of the Department of Business Organization and Operation*  
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 ROBERT STEWART, Ph.D., *Professor of Soil Fertility*

- RUBY ELIZABETH CAMPBELL MASON, A.M., *Dean of Women*  
 ARTHUR BYRON COBLE, Ph.D., *Professor of Mathematics*  
 EVERETT EDGAR KING, A.B., M.C.E., *Professor of Railway Civil Engineering*  
 JAMES THERON ROOD, Ph.D., *Professor of Railway Electrical Engineering*  
 GEORGE FREDERICK NEY DAILEY, Captain, Signal Corps, U.S.A., *Professor of Military Science and Tactics and Commandant*  
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 JOSEPH HOWARD BEARD, M.D., *Professor of Hygiene and University Health Officer*  
 JOHN A. DETLEFSEN, D.Sc., *Professor of Genetics*  
 GEORGE TOBIAS FLOM, Ph.D., *Professor of Scandinavian*  
 WALTER LEE GAINES, Ph.D., *Professor of Milk Production*  
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 THOMAS EDMUND SAVAGE, Ph.D., *Professor of Geology*  
 LORADO TAFT, M.S., L.H.D., *Non-Resident Professor of Art*  
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 CLIFF WINFIELD STONE, Ph.D., *Acting Professor of Educational Psychology*  
 TERENCE THOMAS QUIRK, Ph.D., *Associate Professor of Geology and Chairman of the Department*  
 EDWARD HERBERT CAMERON,<sup>1</sup> Ph.D., *Professor of Educational Psychology*

### ASSOCIATE PROFESSORS

- JAKOB KUNZ, Ph.D., *Associate Professor of Mathematical Physics*  
 HOWARD VERNON CANTER, Ph.D., *Associate Professor of the Classics and Assistant Dean of the College of Liberal Arts and Sciences*  
 DAVID FORD MCFARLAND, Ph.D., *Associate Professor of Applied Chemistry*  
 HARRY GILBERT PAUL, Ph.D., *Associate Professor of English Language and Literature*  
 JOHN MABRY MATHEWS,<sup>2</sup> Ph.D., *Associate Professor of Political Science*  
 NATHANIEL CORTLANDT CURTIS, Ph.B., *Associate Professor of Architectural Design*  
 ROBERT DANIEL CARMICHAEL, Ph.D., *Associate Professor of Mathematics*  
 MARTIN JOHN PRUCHA, Ph.D., *Associate Professor of Dairy Bacteriology*  
 WILLIAM SPENCE ROBERTSON, Ph.D., *Associate Professor of History*  
 ARNOLD EMCH, Ph.D., *Associate Professor of Mathematics*  
 HOWARD BISHOP LEWIS, Ph.D., *Associate Professor of Physiological Chemistry*  
 WALTER SCOTT MONROE, Ph.D., *Associate Professor of Education and Assistant Director of the Bureau of Educational Research*  
 CHRISTIAN ALBAN RUCKMICK, Ph.D., *Associate Professor of Psychology*  
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 ROBERT FRANCIS SEYBOLT, Ph.D., *Associate Professor of History of Education*  
 JAY COURTLAND HACKLEMAN, A.M., *Associate Professor of Crops Extension*  
 B SMITH HOPKINS, Ph.D., *Associate Professor of Chemistry*  
 JESSE BENJAMIN KOMMERS, B.S., *Special Research Associate Professor of Engineering Materials*

<sup>1</sup> Second semester.

<sup>2</sup> On leave of absence.



## ASSISTANT PROFESSORS

- EDWARD CHAUNCEY BALDWIN, Ph.D., *Assistant Professor of English Literature*  
 NEIL CONWELL BROOKS, Ph.D., *Assistant Professor of German and Curator of the Museum of European Culture*  
 FRANCES SIMPSON, M.L., B.L.S., *Assistant Professor of Library Economy and Assistant Director of the Library School*  
 EDWARD HARDENBERGH WALDO, E.E., M.S., M.E., *Assistant Professor of Electrical Design*  
 JUSTUS WATSON FOLSOM, D.Sc., *Assistant Professor of Entomology*  
 WILLIAM FREDERICK SCHULZ, E.E., Ph.D., *Assistant Professor of Physics*  
 GEORGE FOSS SCHWARTZ, A.M., B.Mus., *Assistant Professor of Music*  
 ARETAS WILBUR NOLAN,<sup>1</sup> A. B., M.S., *Assistant Professor of Agricultural Extension*  
 FRANKLIN WILLIAM SCOTT, Ph.D., *Assistant Professor of English, Secretary of the Department of English, and Secretary of the Committee on Students' English*  
 HARRIE STUART VEDDER JONES, Ph.D., *Assistant Professor of English*  
 LEONARD BLOOMFIELD, Ph.D., *Assistant Professor of Comparative Philology and German*  
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 VICTOR ERNEST SHELFORD, Ph.D., *Assistant Professor of Zoology*  
 ERNEST WINFIELD BAILEY,<sup>1</sup> M.S., *Assistant Professor of Pomology*  
 ALBERT WOODWARD JAMISON, M.S., *Assistant Superintendent of the Agricultural College Extension*  
 AXEL FERDINAND GUSTAFSON,<sup>1</sup> M.S., *Assistant Professor of Soil Physics*  
 ERNEST VAN ALSTINE,<sup>1</sup> M.S., *Assistant Chief of Soils Laboratory*  
 ARTHUR ROBERT CRATHORNE, Ph.D., *Assistant Professor of Mathematic*  
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 JACOB ZEITLIN, Ph.D., *Assistant Professor of English*  
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 ARTHUR CHARLES COLE, Ph.D., *Assistant Professor of History*  
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 HARRY WARREN ANDERSON, Ph.D., *Assistant Professor of Pomology*  
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 GUSTAF ERIC WAHLIN, Ph.D., *Assistant Professor of Mathematics*  
 ELMER HOWARD WILLIAMS, Ph.D., *Assistant Professor of Experimental Physics*  
 CHARLES HENRY WOOLBERT, Ph.D., *Assistant Professor of Speech*  
 MORRIS M LEIGHTON, Ph.D., *Assistant Professor of Geology*

<sup>1</sup> On leave of absence.

- RUSSELL McCULLOCH STORY, Ph.D., *Assistant Professor of Political Science*  
 EDWARD JOSEPH FILBEY, Ph.D., C.P.A., *Assistant Professor of Accountancy*  
 FREDERIC ARTHUR RUSSELL, Ph.D., *Assistant Professor of Business Organization and Operation*  
 DONALD MAHANEY ALLISON, A.B., *Assistant Professor of Architectural Design*  
 HAROLD EATON BABBITT, M.S., *Assistant Professor of Municipal and Sanitary Engineering*  
 PAUL EVERETTE BELTING, Ph.D., *Assistant Professor of Secondary Education*  
 HENRY BLUMBERG, Ph.D., *Assistant Professor of Mathematics*  
 WILLIAM EVERETT BRITTON, A.M., J.D., *Assistant Professor of Law and Librarian of the College of Law*  
 ERNEST MCCHESENEY CLARK, B.S., *Assistant Professor of Dairy Production*  
 HERBERT LESOURD CREEK, Ph.D., *Assistant Professor of English and Assistant Dean of Foreign Students*  
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 GILBERT GUSLER, M.S., *Assistant Professor of Animal Husbandry*  
 MERLIN HAROLD HUNTER, Ph.D., *Assistant Professor of Economics*  
 ROBERT TAYLOR JONES, B.S., *Assistant Professor of Architecture*  
 JAMES MCKINNEY, *Assistant Professor of Industrial Education and Director of the Chicago Center*  
 JEAN GILBERT MACKINNON, A.M., *Assistant Professor of Home Economics*  
 LLOYD MOREY, A.B., B.Mus., C.P.A., *Assistant Professor of Accountancy and Comptroller*  
 OLIVER RALPH OVERMAN, Ph.D., *Assistant Professor of Dairy Chemistry*  
 CYRUS EDGAR PALMER, M.S., *Assistant Professor of Architectural Engineering*  
 FRANK ASHMORE PEARSON, B.S., *Assistant Professor of Dairy Economics*  
 GEORGE WELLINGTON PICKELS, C.E., *Assistant Professor of Civil Engineering*  
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DONALD MACKAY GALLIE, D.D.S., *Professor and Head of the Department of Operative Dentistry and Operative Technics*  
GEORGE WALTER DITTMAR, D.D.S., *Professor and Head of the Department of Prosthetic Dentistry and Prosthetic Technics*  
FREDERICK BOGUE NOYES, B.S., D.D.S., *Professor and Head of the Department of Orthodontia and Dental Histology*  
EDGAR DAVID COOLIDGE, D.D.S., *Professor and Head of the Department of Materia Medica and Therapeutics*  
ALBERT CHAUNCEY EYCLESHYMER, B.S., Ph.D., M.D., *Professor and Director of the Department of Anatomy, Histology, and Embryology*  
GEORGE PETER DREYER, A.B., Ph.D., *Professor of Physiology and Physiological Chemistry*  
DAVID JOHN DAVIS, A.B. Ph.D., M.D., *Professor and Head of the Department of Pathology and Bacteriology*  
LOUIS SCHULTZ, D.D.S., M.D., *Professor of Oral Surgery and Pathology*  
NEWTON GEORGE THOMAS, A.M., D.D.S., *Professor of Histology and Secretary of the College*  
LOUIS E BAKE, D.D.S., *Associate Professor of Operative Dentistry*  
SOLOMON PERRY STARR, D.D.S., *Associate Professor of Prosthetic Technics*  
WILLIAM HENRY WELKER, A.C. ,Ph.D., *Associate Professor of Physiological Chemistry*  
ROY LEE MOODIE, A.B., Ph. D., *Assistant Professor of Anatomy*  
FRANK JOSEPH BERNARD, D.D.S., *Assistant Professor of Oral Surgery (Extracting)*  
JOHN C MCGUIRE, D.D.S., *Assistant Professor of Radiography and Superintendent of the Infirmary*  
WILLIAM IRA WILLIAMS, D.D.S., *Assistant Professor of Operative Dentistry*  
JOSIAH JOHN MOORE, M.S., M.D., *Assistant Professor of Pathology and Bacteriology*  
THOMAS HARRIS BOUGHTON, M.S., M.D., *Associate in Bacteriology and Pathology*  
PAUL GERHARDT ALBRECHT, Ph.D., *Associate in Chemistry*  
ARTHUR REUBEN COOPER, A.M., Ph.D., *Associate in Anatomy*  
ELMER DEWITT BROTHERS, B.S., LL.B., *Lecturer on Dental Jurisprudence*  
ROSCOE WINTERS UPP, D.D.S., *Instructor in Prosthetic Dentistry*  
FRANK HERBERT O'HARA, Ph.B., *Instructor in English*  
ANNA REGINALDA BOLAN, R.N., *Instructor in Oral Surgery and Supervising Nurse*  
KAETHE WELLER DEWEY, M.D., *Instructor in Oral Surgery and Pathology (Research)*  
BURNE OLIN SIPPY, A.B., D.D.S., *Instructor in Orthodontia*  
GEORGE LESTER WEIR, D.D.S., *Instructor in Operative Dentistry*  
JOHN STEINGRINSON GRIMSON, D.D.S., *Instructor in Prosthetic Dentistry*  
ROBERT EDWIN WILDER, D.D.S., *Instructor in Therapeutics*  
JAMES ROY BLAYNEY, D.D.S., *Instructor in Therapeutics*  
HORRY MATHEW JONES, B.S., Ph.D., *Instructor in Pathology and Bacteriology*  
LEO F A HEIN, *Instructor in Mechanical Drawing*  
WACLAW HOWARD KUBACKI, D.D.S., *Instructor in Prosthetic Dentistry and Radiography*

OSCAR EUGENE NADEAU, B.S., M.D., *Instructor in Anatomy*

OSWIN RAY CLUTTER, Ph.B., M.S., *Instructor in Chemistry*

GROVER TRACY, A.B., *Instructor in Chemistry*

NORA ELLA FREDERICK, A.B., *Instructor in Anatomy*

JAMES EVERETT FONDA, D.D.S., *Assistant in Oral Surgery*

JAMES TOBIAS GROOT, B.S., *Assistant in Physiology*

WEBSTER BARCLAY ROSE, A.B., *Assistant in Chemistry*

LOUIS N BOELIO, *Assistant in Anatomy*

HUBBARD PRATHER SAUNDERS, A.B., M.D., *Assistant in Physiology*

CARROLL W STUART, D.D.S., *Assistant in Oral Surgery (Extracting)*

JESSE LOUIS BOLLMAN, A.B., M.S., *Assistant in Physiological Chemistry*

LUTHER L BLAINE, *Assistant in Prosthetic Dentistry*

ALMA BOURGEOIS, R.N., *Nurse in the Infirmary*

NELLIE MORGAN FRAIN, *Artist*

ADOLPH KRAFT, B.S., *Student Assistant*

GEORGE LIVINGSTON, B.S., *Student Assistant*

CLARENCE C SALLHOF, B.S., *Student Assistant*

BEULAH SMITH, R.N., *Student Assistant*

ROBERT H MANDEL, *Student Assistant*

LOUIS SCHULTZ, *Student Assistant*

# THE SCHOOL OF PHARMACY

(Wood and Flourney Streets, Chicago)

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## FACULTY

- EDMUND JANES JAMES, Ph.D., LL.D., *President of the University* (on leave)  
DAVID KINLEY, Ph.D., LL.D., *Acting President*  
WILLIAM BAKER DAY, Ph.G., Phar.M., *Professor of Materia Medica and Botany, Acting Dean, and Secretary*  
CLYDE MASON SNOW, Ph.G., *Associate Professor of Pharmacy*  
ALBERT HENRY CLARK, B.S., Ph.G., *Associate Professor of Chemistry*  
JAMES GROOT, *Instructor in Physiology*  
EDMUND NORRIS GATHERCOAL, Ph.G., *Instructor in Pharmacognosy*  
HATTIE ADELA DYNIEWICZ, Ph.C., *Instructor in Pharmacy*  
WILLIS K WEAVER, *Instructor in Chemistry*  
CHARLOTTE E STIMSON, *Assistant in Pharmacognosy and Librarian*  
JOSEPHINE MARION DYNIEWICZ, *Assistant in Chemistry*  
JOHN AUGUST DARJAHN, *Laboratory Assistant*

# STANDING COMMITTEES OF THE FACULTY

## COMMITTEES OF THE SENATE

*Committee on Educational Policy*—Professor S. A. Forbes (chairman), Professor S. P. Sherman, Professor E. J. Townsend, Professor A. C. Willard, Professor J. W. Lloyd, Professor E. B. Paine, Dean C. E. Chadsey.

*Committee on Library*—Professor A. H. Daniels (chairman), Professor W. L. Burlison, Professor J. D. Fitz-Gerald, Professor A. P. Carman, Professor J. S. Kingsley, Professor A. H. Lybyer, Director P. L. Windsor.

*Committee on Athletics*—Professor G. A. Goodenough (chairman), Professor W. C. Coffey, Professor D. H. Carnahan, Professor W. G. Hale, Director G. A. Huff.

## COMMITTEES OF THE COUNCIL OF ADMINISTRATION

*Committee on Discipline for Men*—Dean T. A. Clark (chairman, *ex officio*), Professor F. Green, Professor G. A. Goodenough, Professor F. H. Rankin, Assistant Professor Gordon Watkins.

*Committee on Discipline for Women*—Dean Ruby E. C. Mason (chairman, *ex officio*), Miss Emma L. Wardell, Assistant Professor Florence R. Curtis.

*Committee on Student Organizations and Activities*—Professor R. F. Watson (chairman), Assistant Dean Horace B. Garman (secretary), Dean Ruby E. C. Mason (*ex officio*), Dr. Gertrude Moulton, Associate L. R. Sarett.

*Advisory Committee on Home-Coming*—Director G. A. Huff (chairman), Mr. G. H. Radebaugh, Assistant Professor F. W. Scott, Assistant Dean Horace B. Garman.

*Committee on Loan Funds*—Dean T. A. Clark (chairman), Assistant Dean H. V. Canter, Assistant Dean H. H. Jordan.

*Committee on Students' Mutual Benefit Hospital Fund*—Dean T. A. Clark.

*Committee on Accredited Schools*—Assistant Professor B. S. Hopkins (chairman), Professor H. A. Hollister, Associate Professor W. S. Robertson, Registrar C. M. McConn, Associate E. B. Lyle.

*Committee on Appointment of Graduates*—Professor B. R. Buckingham (chairman), Professor H. G. Paul, Professor H. A. Hollister.

*Committee on Catalog*—Registrar C. M. McConn (chairman), Professor Robert Stewart, Professor C. A. Ellis, Assistant Professor F. W. Scott, Director H. E. Cunningham.

*Committee on Students' Use of English*—Professor C. A. Ellis (chairman), Assistant Professor J. Zeitlin, Professor L. H. Smith, Professor Frederick Green, Assistant Professor E. J. Filbey.

*Faculty Members of the Illini Board*—Professor F. W. Scott (chairman), Dean T. A. Clark, Assistant Professor R. M. Story.

*Faculty Members of the Board of Advisers of the Star Course*—Comptroller Lloyd Morey (chairman), Director J. L. Erb, Associate L. R. Sarett.

*Committee on Rhodes Scholarships*—Dean K. C. Babcock (chairman), Dean T. A. Clark, Professor Ernst Bernbaum.

## COMMITTEE ON ADMISSIONS FROM HIGHER INSTITUTIONS

Professor L. M. Larson, Professor G. A. Goodenough, Professor H. B. Ward, Professor J. A. Detlefsen, Professor H. A. Hollister (*ex officio*), Registrar C. M. McConn, (secretary, *ex officio*).

PART I  
GENERAL INFORMATION





## LOCATION

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The University of Illinois is situated in Champaign County, about fifty miles northeast of the geographical center of the State. It is 126 miles south of Chicago, 118 miles west of Indianapolis, 164 miles northeast of St. Louis.

The campus of the University lies partly within the corporate limits of the city of Urbana and partly within the corporate limits of the city of Champaign. The two municipalities form one community of about twenty-nine thousand inhabitants. The city halls of the two towns are two miles apart, the campus half way between. The railway, express, telegraph, and telephone services of both cities are available for the University. Mail for the institution itself should be directed to Urbana to insure prompt delivery. The Urbana post office maintains a sub-station at the University, located in the Library Building.

### Urbana-Champaign

The cities of Urbana and Champaign are in the heart of the "Corn Belt" and form the business and social center of a rich farming community.

In matters pertaining to health, conditions are good. There is a hospital within three blocks of the campus, in which students may be cared for at moderate expense. The University maintains a temporary emergency hospital.

The University has no dormitories for men, and one residence hall for women. The number of boarding houses is large, and there are sixty-three residence halls erected by fraternities, sororities, and local clubs.

There are thirty-six churches, representing thirteen denominations, and a number of students' religious associations, leagues, and guilds, including Young Men's and Young Women's Christian Associations.

### Railway Connections

The University is connected with neighboring cities in Illinois, including Bloomington, Danville, Decatur, Peoria, and Springfield, and also with St. Louis, by the electric inter-urban lines of the Illinois Traction System.

It may be reached from Chicago and the north and from points in the south by the Illinois Central Railroad, being on the direct line from Chicago to Cairo and New Orleans. It is joined to the east and the west by the Peoria & Eastern Division of the "Big Four" route, as well as by the division of the Wabash Railway which connects Kansas City and St. Louis with Detroit and Buffalo.

The station of the Illinois Central Railroad is in Champaign. The Wabash and "Big Four" have stations in both Champaign and Urbana. There are several hotels in Champaign and Urbana within easy reach of the University, the Beardsley and the Inman in Champaign and the Columbian in Urbana being the largest.

# HISTORY

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## *1862. The Morrill Land Grant*

By this act the national government donated to each state in the Union public land scrip, in quantity equal to 30,000 acres for each senator and representative in Congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, \* \* \* \* \* in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the State pays the University, semi-annually, interest at the rate of five per cent on about \$649,000.

## *Location chosen*

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and \$100,000 in county bonds. To this the Illinois Central Railroad added \$50,000 in freight.

## *1867. Incorporation*

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University. It was placed under the control of a Board of Trustees, consisting of the Governor, the Superintendent of Public Instruction, and the President of the State Board of Agriculture, *ex officio* members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called the Regent, and was made *ex officio* member of the Board and the presiding officer of both the Board of Trustees and the Faculty. (See also 1873 and 1887 below.)

## *1867. Dr. Gregory Regent*

On March 12, 1867, John Milton Gregory, LL.D., was elected Regent of the University. On April 1, 1867, Dr. Gregory accepted the position and entered on his duties. He served as Regent until September 1, 1880.

## *1868. The University opened*

The University opened on March 2, 1868. The number of students enrolled was about fifty; the faculty consisted of the Regent and two professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra, geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens or about the buildings was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was to serve as a part of instruction.

## *1868-69. The first laboratories*

During the autumn of 1868 a chemical laboratory was fitted up, and laboratory work in botany was begun the following year.

### 1870. *Pioneer shop instruction*

In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. In the summer of 1871 the Wood Shops and Testing Laboratory (burned on June 9, 1900) were erected and equipped for students' shop work in both wood and iron.

### 1870. *Women admitted*

On March 9, 1870, the Trustees voted to admit women as students. In the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

### 1873. *First reorganization of the Board of Trustees*

At this time the number of members was reduced from thirty-two (see 1867 above) to eleven—the Governor and the President of the State Board of Agriculture, *ex officio*, and nine others, who were still appointed by the Governor. Beginning at this time also, the President of the Board has been chosen by the members from among their own number for a term of one year. (See also 1887 below.)

### 1877. *Authority to confer degrees received*

According to the original State law, the usual diplomas and degrees could not be granted by the University; certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

### 1880-81. *Dr. Peabody Regent.*

In June, 1880, Regent Gregory's resignation was accepted to take effect September 1, 1880, and Selim Hobart Peabody, A.B., Ph.D., Professor of Mechanical Engineering and Physics, was made Regent *pro tempore*. At the next annual meeting, in March, 1881, he was elected Regent.

### 1885. *Change of name*

In this year the General Assembly changed the name of the institution from the *Illinois Industrial University* to the *University of Illinois*.

### 1885. *The State Laboratory of Natural History transferred to the University.*

Merged in the State Natural History Survey in 1917. (See page 430.)

### 1887. *Second reorganization of the Board of Trustees*

In 1887 a law was passed making membership in the Board elective, at a general State election, and restoring the Superintendent of Public Instruction as an *ex officio* member. There were then, therefore, three *ex officio* and nine elective members. (For the previous organization of the Board see 1867 and 1873 above. See also 1919 below.)

### 1887. *The Agricultural Experiment Station established at the University*

See page 423.

### 1890. *Additional Federal endowment*

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year \$15,000, the second year \$16,000, and in each succeeding year a sum larger by \$1,000 than the amount of the preceding year, until the amount reached \$25,000; this sum was to be paid yearly thereafter.

### *1891. Dr. Burrill Acting Regent*

In June, 1891, Regent Peabody's resignation was accepted, to take effect September 1, and in August, Thomas Jonathan Burrill, A.M., Ph.D., Professor of Botany and Horticulture, was appointed Acting Regent. Dr. Burrill served in this capacity until September, 1894.

### *1892. The Graduate School*

Beginning with this year, graduate work was undertaken under the name of the Graduate School, but without the organization of a separate faculty.

### *1894. The Summer Session*

The first Summer Session of the University was authorized by a vote of the Trustees on March 3, 1894, and was opened in June of that year.

### *1894. Dr. Draper President*

On April 13, 1894, Andrew Sloan Draper, LL.D., was elected Regent. He accepted May 10, 1894. On August 1, his title was changed to President. Dr. Draper entered on his duties on August 1, 1894. He served until June, 1904.

### *1896. The School of Pharmacy*

On May 1, 1896, the Chicago College of Pharmacy, founded in 1859, became the School of Pharmacy of the University of Illinois.

### *1897. The College of Medicine*

Negotiations looking to the affiliation of the College of Physicians and Surgeons of Chicago with the University, which had been going on for several years, were concluded by the Board of Trustees March 9, 1897. Accordingly, the College of Physicians and Surgeons became, on April 21, 1897, the College of Medicine of the University of Illinois. (The College of Medicine was discontinued on June 30, 1912, but was re-opened on February 12, 1913.)

### *1897. The School of Music*

By vote of the Trustees on June 9, 1897, the department of music, which had been reorganized and enlarged in 1895, was erected into the School of Music, with a separate faculty and organization.

### *1897. The State Water Survey authorized*

See page 431.

### *1897. The Library School*

In 1897 the School of Library Economy, which had been established in 1893 at the Armour Institute of Technology in Chicago, was transferred to the University, the Director of that school was appointed Librarian of the University Library, and the Library School was opened.

### *1897. The College of Law*

Pursuant to an action of the Board of Trustees, taken December 8, 1896, the School of Law was organized, and was opened September 13, 1897. The course of study covered two years, in conformity with the then existing requirements for admission to the bar of Illinois. In the following November the Supreme Court of the State announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law*.

1899. *The State Entomologist's Office permanently established at the University.* Merged in the State Natural History Survey in 1917.

See page 430.

1900. *Courses in Business Administration*

In 1900 the General Assembly made an appropriation for the establishment of courses of training for business life, and, in accordance with that action, the Trustees approved the organization of the Courses in Business Administration. (See also 1915 below.)

1901. *The College of Dentistry*

In accordance with an action taken by the Board of Trustees on March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to *College of Dentistry* on April 27, 1905. (The College of Dentistry was discontinued on June 30, 1912, but was re-opened on October 1, 1913.)

1903. *The Board of Examiners in Accountancy created*

See page 434.

1903. *The Engineering Experiment Station established*

See page 426.

1904. *Dr. James President*

On March 9, 1904, President Draper's resignation was accepted, to take effect July 1. On August 23, 1904, Edmund Janes James, Ph.D., LL.D., was elected President. He accepted on August 26, 1904, and entered on his duties in the fall of that year.

1905. *The School of Education*

By a vote of April 27, 1905, the Board of Trustees established the School of Education, to provide for the professional training of teachers. (See also 1918 below.)

1905. *The State Geological Survey established.*

See page 432.

1906. *Adams Fund*

This fund was created by an Act of Congress dated March 16, 1906, and provides for an appropriation of \$5,000 for the year ending June 30, 1906, and an increase of \$2,000 a year for five years. The present appropriation to the University under the Adams Act is, therefore, \$15,000 a year. Its use is limited to the necessary expenses of original research and experimental work in agriculture.

1907. *Nelson Fund*

This fund was created by an Act of Congress dated March 4, 1907, and carried with it an appropriation of \$5,000 for the fiscal year ending June 30, 1908, and an annual increase of \$5,000 for four years. The present appropriation to the University under the Nelson Act is, therefore, \$25,000 per year. Its uses are identical with those of the Morrill Fund.

1906-7. *The School of Railway Engineering and Administration*

On January 30, 1906, the Board of Trustees created in the College of Engineering a department of railway engineering; on January 22, 1907, supplementing that action, it established the School of Railway Engineering and Administration. (See also 1917.)

*1906-7. The Graduate School organized as a separate faculty.*

The General Assembly appropriated \$50,000 for the Graduate School, and the Executive Faculty of that school was organized.

*1909. The Department of Mining Engineering.*

The General Assembly established the Department of Mining Engineering in the College of Engineering.

*1911. The Mill Tax*

The General Assembly passed a law providing that in the year 1912, and annually thereafter, the proceeds of a tax of one mill for each dollar of the assessed valuation of the taxable property of the State should be set apart as a fund for the maintenance of the University.

*1911. Cooperative Investigation of Illinois Coal Problems*

See page 435.

*1912. The Colleges of Medicine and Dentistry discontinued*

The Colleges of Medicine and Dentistry were discontinued on June 30, 1912.

*1913. The Colleges of Medicine and Dentistry re-opened.*

On February 12, 1913, the Board of Trustees accepted the gift of the capital stock of the College of Physicians and Surgeons, donated to the University by the alumni and other friends of medical education in Chicago, and the College of Medicine was re-opened.

The College of Dentistry was re-opened on October 1, 1913.

*1913. The College of Liberal Arts and Sciences*

In this year the College of Literature and Arts and the College of Science were united to form the College of Liberal Arts and Sciences.

*1915. The College of Commerce and Business Administration*

The Courses in Business Administration, organized in 1900, were erected into a separate College of Commerce and Business Administration.

*1917. The School of Railway Engineering and Administration suspended*

In 1917, the activities of this school were suspended because the leading members of its faculty were called away for war service.

*1918. The University Press*

On June 1, 1918, the Board of Trustees authorized the organization of the University Press, to have charge of the editorial, printing, and publishing activities of the University. (See page 411.)

*1918. The College of Education*

On June 1, 1918, the Board of Trustees voted to erect the School of Education into a separate College of Education.

*1919. Third Reorganization of the Board of Trustees*

In 1917, the General Assembly passed a law reorganizing the administration of the State, by virtue of which the office of the President of the State Board of Agriculture was abolished on January 1, 1919. There are now, therefore, eleven members, two *ex officio* and nine elective.

# EQUIPMENT

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## BUILDINGS AND GROUNDS

The Land occupied by the University embraces 238 acres, besides a farm of 991 acres. There are at the present time some fifty-three buildings on the campus.

### Liberal Arts

*University Hall* (erected 1873) is the "old main building" of the University. It occupies three sides of a quadrangle, and is five stories in height. It is devoted to class rooms and offices.

*Lincoln Hall* (erected 1911) has a frontage of 230 feet. The exterior is brick, stone, and terra cotta. The building provides for the advanced work of the departments of the classics, English, Romance languages, Germanic languages, history, economics, education, political science, sociology, and philosophy. The first three floors provide, in addition to the ordinary class and consultation rooms, seminar libraries and conference rooms. On the fourth floor are research rooms and two museums, the Museum of Classical Art and Archeology, and the Museum of European Culture.

### General Science

*The Laboratory of Physics* (erected 1909) is a three-story fireproof brick building trimmed with Bedford limestone. The length is 178 feet and the depth of the wings is 125 feet. The lecture room has a seating capacity of two hundred sixty-two. A one-story annex, 78 by 28 feet, contains the ventilating and heating fans and the machine shop of the department. The total available floor area, exclusive of the basement, is about 60,000 square feet. The large laboratories and the recitation rooms are mostly in the west wing. The east wing contains about thirty smaller laboratories for advanced experimental work. The department of blue printing and photography occupies rooms on the top floor of the building. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents of a wide range in amperes and in volts are available in all parts of the building.

*The Chemistry Laboratory* (original structure erected 1901-2; addition 1914-15) is a brick building. The original structure is of slow burning construction, and the addition is fireproof. The total available floor area is about 164,000 square feet. The ground plan is a hollow square, the extreme dimensions of which are 230 feet along the front, and 200 feet along the sides. The center court contains the lecture amphitheater, which seats 390. The side wings of the building contain the general laboratories, while the center portions of both old and new structures are occupied by offices, class and seminar rooms, library, museums, supply rooms, and research laboratories. The main storeroom is in the basement under the lecture room. In this building are also located the offices and laboratories of the State Water Survey and the department of bacteriology.

*Natural History Hall* (old part erected 1892; addition 1909) covers a ground area of 135 feet by 275 feet. It is occupied by the departments of botany, entomology, zoology, physiology, geology, and mathematics, and the offices of the State Natural History Survey and the State Entomologist. A fireproof museum 51 feet by 63 feet in size, equipped with fireproof and dustproof cases, occupies the center of the building.

*The Botany Annex* (erected 1914) is a greenhouse laboratory covering 5,000 square feet, divided into compartments that are severally provided with devices for controlling humidity and temperature within close limits for exact experimentation in the fields of plant physi-

ology and pathology. To this laboratory is attached a reconstructed two-story dwelling, giving working and class rooms for use in connection with the experiments conducted under glass.

*The Vivarium* (erected 1915-16) occupies the block south of the Illinois Traction System tracks, between Wright and Sixth streets, the main facade of the building being toward Healey street. The scheme involves a main building containing eight laboratories, one office, and store rooms, with supplementary greenhouses at each end, and a head house serving two greenhouses, together with two screened houses. The main building is a brick structure, two stories high, connected with the head house by a one-story passage from the main corridor. The building is occupied by the departments of zoology and entomology.

*The Entomology Building* (erected 1905 for the use of the State Entomologist and his staff) is a two-story building 48 by 20 feet, with basement storerooms, and with two insectary wings of greenhouse construction, each 25 by 20 feet. It contains the office of the horticultural inspector, a stenographer's room, rooms for the assistant inspectors and insectary assistants, and a large fireproof vault. The glass-covered wings are equipped for experimental entomology and life-history studies.

*The Astronomical Observatory* (erected 1896) is a brick building with extreme dimensions of 75 by 55 feet. It has three wings and is surmounted by a dome 25 feet in diameter, which houses the 12-inch refracting telescope. An adjacent building with a 15-foot dome, erected in 1914, contains a 30-inch short focus reflector.

### Commerce and Business Administration

*The Commerce Building* (erected 1912) is a fireproof building three stories high, 153 feet on the front and 60 feet deep, with a one-story annex containing a lecture room 48 feet square. The building has a total floor area of about 29,000 square feet; it provides class rooms, offices, and laboratories for the work in business administration. The exterior first story finish is buff Bedford stone; the second and third stories are of brick with carved stone trimmings and cornice. The roof is of tile, and the interior trim is of dark oak. The Administration Building (see page 56) is a second unit of this building and will eventually be occupied by this College.

### Education

*The Education Building* (erected 1917-18) is a fire-proof structure of reinforced concrete, faced with Bedford limestone, and is of collegiate Gothic design. It occupies a ground area 69 by 198 feet. It will be occupied in the autumn of 1920 by the College of Education as a model high school; the college furnishing the corps of instructors, under whom the students in the school receive their practical teaching experience. The first floor contains locker and toilet rooms for boys and girls, rooms for manual training, mechanical drawing sewing and domestic science, as well as general class rooms and the offices of the principals. On the second floor is the library, rooms for the commercial department, and various class rooms. Chemistry, physics, biology, and agriculture take up the greater part of the third floor, the remainder being devoted to class rooms. This building is the first unit of a structure which will occupy the entire block.

### Engineering

*Engineering Hall* (erected 1894) is a four-story building, with a frontage of 200 feet, a depth of 76 feet on the wings and 138 feet on the center, and a floor area of 47,000 square feet. The first and second floors are occupied by the offices and recitation rooms, and the instrument and drafting rooms of the departments of civil engineering and municipal and sanitary engineering. The engineering lecture room, on the second floor, has a seating capacity of two hundred twenty-five. The third floor is occupied by the offices of the



Dean of the College of Engineering and Director of the Engineering Experiment Station, and by offices, recitation, and drafting rooms of the departments of mechanical engineering and architecture. All of the fourth floor is occupied by the department of architecture.

*The Electrical Engineering Laboratory* (erected 1898) is a two-story brick building with floor area of 18,000 square feet. The basement contains the departmental shop, the storage battery room, the electric furnace room, and rooms for electrical research. The first floor contains the undergraduate laboratory, the instrument room, the high potential laboratory, and the drafting, lecture, and recitation rooms. The second floor contains the photometric laboratory, the offices, the departmental library, and a room used by the Electrical Engineering Society.

*The Mechanical Engineering Laboratory* (erected 1905, remodeled 1917) is a brick building 120 by 182 feet. In 1916 the interior was changed to provide for a basement with an elevated or mezzanine operating floor, giving a floor area for laboratory purposes of 28,000 square feet. On the mezzanine floor is mounted all of the principal equipment of the laboratory; in the basement auxiliary apparatus is housed. The front section is two stories high and together with the two-story addition to the south contains offices, lecture and computation rooms, a lavatory, and an instrument room. The main laboratory is divided into three bays, each approximately 40 feet wide. The middle bay is provided with a ten-ton three-motor traveling crane, and the north bay with a five-ton hand operated traveling crane. In the basement two flumes, each three feet deep by four feet wide and 120 feet long, together with a storage reservoir having a capacity of 7,000 gallons, provide for the measurement and storage of water.

*The Laboratory of Applied Mechanics* (erected 1901-2) is a brick building having a floor area of 16,000 square feet. The front part contains the materials testing laboratory, and the rear wing the hydraulics laboratory.

*The Highway Laboratory* (erected 1910) is a two-story brick addition to the Mechanical Engineering Laboratory, containing the laboratories and certain recitation rooms and offices of the department of civil engineering, which are closely associated with the work of testing materials used in road construction, and with researches in the development of such materials.

*The Mining Engineering Laboratory* (erected 1912) is a one-story brick building, having a floor area of 5,700 square feet. It is divided into five units. (1) Coal washing and preparation; (2) Ore dressing and metallurgy; (3) Mining, including blasting and explosives; (4) Chemical analysis and sampling; (5) Gas analysis, safety lamps and ventilation.

*The Ceramic Engineering Kiln House* (erected 1912) connects with the ceramic engineering building. It has a floor area of 11,200 square feet, and contains the kilns, furnaces, and heavy machines for working clays.

*The Ceramic Engineering Building* (erected 1915-16) is a three-story structure, 188 by 65 feet, of fireproof construction, built of texture brick and polychrome terra cotta. The front of the building is decorated with colored tile panels. The roof is of Spanish tile, and the floor of the halls and corridors of clay tile. The structure is intended to present modern achievement in the use of ceramic structural materials. The third floor is occupied by the State Geological Survey and about one-third of the first floor by the department of applied mechanics. The main portion of the building is utilized by the recitation rooms, laboratories, and offices of the department of ceramic engineering.

*The Locomotive Testing Laboratory* (erected 1912) is a brick fireproof building 117 by 42 feet, connected by a spur with the Illinois Traction System tracks. It houses a locomotive testing plant, which consists of supporting wheels on which rest the drivers of the locomotive to be tested, a dynamometer to which the locomotive drawbar is attached, and which measures the tractive force exerted by the locomotive, water brakes for absorbing the power developed by the locomotive, and other auxiliary apparatus. The exhaust gases pass through an asbestos board duct to a large fan which forces them through a reinforced

concrete cinder separator; the separator removes the cinders and discharges the gases into the air through a brick stack eight feet in diameter.

*The Transportation Building* (erected 1912) is a three-story fireproof building of brick trimmed with stone. The building is 65 by 189 feet and the total floor area is 34,225 square feet. The first and second floors of the building are occupied by the departments of railway and mining engineering, and the third floor by the department of general engineering drawing.

*The Metal Shops* (erected 1902) occupy a one-story brick building with a floor area of 12,000 square feet, containing office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a twenty-horse-power electric motor. A three-ton traveling crane of ten-foot span covers the center of the floor for the entire length.

*The Wood Shop* (erected 1901-2) and the *Foundry* (added 1904) occupy a brick building which has a floor area of 16,000 square feet. The wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures and exhibition purposes. The foundry has a molding floor 35 by 80 feet, traversed by a five-ton traveling crane, and a basement room for the storage of materials.

### Agriculture

*The Agriculture Building* (erected 1900) consists of four separate structures, built around a court and connected by corridors. The court was enclosed in 1912 and divided into five large class rooms. The main building, three stories high, contains offices, class rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, and horticulture; the chemical laboratory of the Experiment Station; administration rooms; and assembly room (Morrow Hall) with a seating capacity of 500. The other three buildings are two stories high; one is for dairy manufactures, one for farm crops, and one for class rooms and laboratories. These buildings are of stone and brick, roofed with slate, and contain 113 rooms and a total floor space of about two acres.

*The Agronomy Building* (erected 1904-5) is a brick and slate structure 50 by 100 feet. It contains a field laboratory and storage room for crop work.

*The Agronomy Greenhouse* (erected 1900, rebuilt 1912) consists of two glass structures covering a total floor space of 6,500 square feet, and a service building equipped with research and photographic laboratories.

*The Agronomy Barn and Implement Shed* (barn 1915; shed 1918) are wooden structures respectively 26 by 70 feet, and 33 by 100 feet, designed as service and storage buildings for the field work of the department of agronomy.

*The Animal Husbandry Cattle Feeding Plant* (first unit erected 1917) is of brick and frame construction with a tile roof, located on the axis of Fourth Street, south of the "Farm Lane." There are eight silos built in a circle to enclose a feed room. The two to the south are 16 by 70 feet, and the others are 12 by 40 feet. The plant will also be used as a storage place for feed for the animal husbandry department. In the section not yet built the upper stories will be constructed as an elevator with large grain bins, where grain can be elevated, preparatory to grinding, shipping, or feeding. There will be a corn crib with a capacity of 12,000 bushels.

*The Farm Mechanics Building* (erected 1906-7) is a three-story brick structure, containing class rooms, offices, lecture rooms, drafting room, library, laboratories, and tool and storage rooms. The third floor furnishes storage room for the greater part of \$16,000 worth of farm machinery, lent the College by manufacturing companies and used for laboratory work. The facilities afforded by this building, with its equipment, make possible the assembling, testing, and adjusting of all the important machines used in farm operations.

*The Pure Bred Dairy Cattle Barn* (erected 1891, remodeled 1895 and 1901) consists of a main two-story wooden structure 104 by 48 feet, a wing to the east 74 by 30 feet, and a shed for young stock at the south 72 by 30 feet. About 40 head of milking cows in addition to young stock and bulls are accommodated. Two Gurler silos are at the south and a wooden stave silo at the east.

*The Beef Cattle Building* (erected 1904-5) is a one-story structure of brick and slate, trimmed with stone, 217 feet across the front, with a wing at either end 33 by 49 feet; the central portion rises two stories and is used for the storage of feed. This building was remodeled in 1919 for use by the Department of Veterinary Science and the State Serum Laboratory.

*The Experimental Dairy Barns* (erected 1912) comprise three round barns, the largest being 70 feet in diameter with a reinforced concrete silo in the center, a semi-detached rectangular structure 40 by 70 feet with a Grout silo adjacent, and a small dairy house and shop 26 by 32 feet. The barns are of frame construction on brick walls with solid floors of the mill type of construction, and contain feed rooms, hay lofts, and other accommodations for the experimental dairy herd. The dairy house is of frame construction, two stories in height, and contains office, shop, coal room, dairy room, and four sleeping rooms for employees.

*The Sheep Barn* is a wooden structure consisting of a main barn 36 by 90 feet, and a shed, opening to the south, 25 by 100 feet in size. A six-foot aisle, lined by pens on each side, runs through the center of the barn. This building besides accommodating the University flock is used for experimental work.

Other buildings on the South Farm for the accommodation of live stock are three horse barns and the piggery.

*The Stock Pavilion* (erected 1913) is a fireproof building 54 feet high on the front and 148 feet deep with circular ends 92 feet in diameter and 20 feet high. The total ground area is 30,000 square feet, and the show arena is 216 feet long and 65 feet wide. Seats of concrete provide accommodations for 2,000. The arena may be divided into three parts, giving three separate judging rooms. The building also contains class rooms and offices. The exterior is of brick and terra cotta, renaissance in design, the frieze being enriched with medallions of animal heads.

*The Genetics Building* (erected 1915-16) is a one-story brick structure (located on Farm Lane and Mathews Avenue) housing the laboratories, offices, and animal rooms of the department of genetics. The work carried on in this building is done principally by graduate students.

*The Horticulture Building* (erected 1904-5) is a structure of brick and slate trimmed with stone, approximately 50 by 100 feet in size. It is used as a field laboratory for horticultural tests, and contains sorting and storage rooms and a laboratory for the mixing of spraying materials and other operations in connection with the horticultural work.

*The Horticulture Greenhouse Group* (erected 1912-13) includes (1) a floricultural group and (2) a vegetable and plant breeding group.

(1) *The Floriculture Greenhouse Group* (erected 1912-13) consists of a two-story and basement service building 93 by 37 feet, and the following glass structures: four houses each 105 by 28 feet, three houses each 105 by 35 feet, one corridor house 139 by 10 feet, one storage house 50 by 12 feet, and a palm house 80 by 40 feet. The service building is of hollow tile and cement construction, and contains laboratories, lecture room, sales room, offices, and seminar room, as well as potting, storage, and work rooms.

(2) *The Vegetable and Plant Breeding Greenhouse Group* (erected 1912-13) consists of a glass house for vegetable growing 105 by 28 feet, two houses for plant breeding each approximately 80 by 30 feet, a wire house 80 by 30 feet, and a two-story and basement service building 82 by 36 feet, containing laboratories, work rooms, class rooms, offices,

and storage rooms. The type of construction of this building is the same as that of the floriculture service building.

#### Law

*The Law Building* (erected 1878; remodeled 1902 and 1912) is the second oldest building in the University group. It has two stories and a basement. The upper floor contains the Law Library, the students' conference room, the private offices of the members of the law faculty, and the Moot Court Room, a model court room with a seating capacity of four hundred. On the main floor are the recitation rooms, the Dean's offices, and the faculty room. In the basement are the lockers, the students' reading room, and a court room for the Law Clubs.

#### Military Science

*The Field Artillery Stable* (erected 1919), a one story stucco building in Italian style, provides space for animals belonging to the R. O. T. C. Artillery and Cavalry units. This structure is the first and chief building of a group which will ultimately house all material and equipment of these units and afford working and living quarters for the permanent personnel.

*The Armory* (erected 1914-15) comprises a drill room with a clear area of 200 by 400 feet and a height of 98 feet at the center, the roof being carried by fourteen three-hinged steel arches. The sides are of hollow tiles and the ends, supported by columns, are of steel, glass, tile, and concrete, with wood frames and sashes. The drill floor is sufficient area to permit the maneuvering of an entire battalion of the cadet brigade. Provision has been made for the addition of the balcony around the drill floor with seats for 3,000 and for the addition of three-story facades along the sides flanked by towers at each end. This will provide space for company rooms, locker rooms, shooting tubes, and class rooms.

#### Music

*The Smith Memorial Hall* (erected 1918-19) is a fire-proof building of brick and stone exterior, to be occupied by the School of Music. The area occupied is 126 by 163 feet, extending in height through a basement, two stories, and attic. The basement is occupied by plenum chambers, machinery, and dressing rooms. On the first floor are the Director's suite, two class rooms, and seven studios, together with the first floor of the recital hall. The second floor contains the Memorial Room dedicated to the donor, Captain Thomas J. Smith and his wife, Tina Weedon Smith, to whom the building is dedicated as a memorial, and the Library, with a score trial room, and eleven studios. This floor also affords access to the balcony of the recital hall, which with the first floor gives a total seating capacity of about 1,100 persons. The third floor contains forty-seven practise rooms, and a lecture room seating about 100. All studios and practise rooms are thoroly sound-proofed and insulated from one another.

#### Buildings for General University Use

*The Administration Building* (erected 1914-15) is a three-story and basement fireproof building of brick and stone. It is 153 by 66½ feet with a one-story annex, 48 by 42 feet, with a total floor area of 36,000 square feet; it contains the rooms of the Board of Trustees and the offices of the President, the Registrar, the Comptroller, the Supervising Architect, the Dean of Men, the High School Visitor, the Adviser to Foreign Students, the Alumni Association, the University Press, and the Information and Stenographic Bureau. This building is the second unit of the Commerce Building, and will eventually be occupied by that College.

*The Library Building* (erected 1896-97; an addition to the stack room erected 1914; further addition erected 1918) is modern Romanesque in style, is built of Minnesota sand-

stone, and measures 167 by 141 feet, with a tower 132 feet high. The first floor, or basement, contains the rooms of the catalog and order departments, the bound newspapers, and the University Station post office. The second, or main floor, contains the general reference room, the periodical reading rooms, a small conference room, and the delivery room, which opens into the second story of the stack. The third floor contains the study room, lecture rooms, and office of the Library School, faculty study room, and the office of the librarian. The five-story book stack is a rear wing to the building, separated from it by a fireproof wall. The delivery room is open to the roof and is lighted by a dome of art glass; the lunettes are decorated with frescoes symbolic of the four older colleges of the University—Literature and Arts, Science, Agriculture, and Engineering.

The latest addition is 37½ by 79 feet on the ground, and contains four stories of stacks. Above this is a room covering the entire area of the building, which will be used as a work room. This addition also contains an unpacking room, a storage room, and an elevator tower.

*The Auditorium* (erected 1907-8) is a brick and stone building for general meeting purposes. It contains an auditorium seating about 2,200, a memorial vestibule, and a four-manual organ. All general University exercises and convocations are held in this building.

*The Men's Gymnasium* (erected 1901) is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, 26 feet wide, 75 feet long, and 8 feet deep at the lower end, lined with white enamel bricks. The water is filtered and sterilized by continuous circulation through a violet-ray sterilizer. This floor contains also the general locker room, which is fitted up with all-metal lockers, and with shower bath, and steam baths; rooms for the University Athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and the instructors in athletics. The entire second floor is one room, fitted up with modern appliances for gymnastic exercises. The third floor contains an elevated running track, 15 laps to the mile, banked on the turns to secure speed and comfort in running.

*The Gymnasium Annex* (erected 1889-90) has a clear floor space of 15,000 square feet in one hall, while the addition (erected 1918) gives an additional clear area of about 7,500 square feet.

*The Woman's Building* (erected 1905; addition 1912) is in the New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the women's gymnasium. On the lower floor there are swimming tank, lockers, dressing rooms, and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The north wing of the building is given to the department of home economics, and the south wing provides rooms for the social life of the women students. The addition is a three-story fireproof building and basement. It is 200 feet long on the front and 83 feet on each connecting wing, having 43,000 square feet of floor area. It has a large colonnade with towers on the front and two smaller colonnades on the north and south of the inner court. The addition is similar to the old building in finish. It has two halls for literary societies and a modern flat on the upper floor, and an institutional kitchen and large dining room on the second floor. There are also offices for the Dean of Women and the Director of the Courses in Home Economics, laboratories, social rooms, and space for the expansion of gymnasium work.

### The President's House

*The President's House* (erected 1896) is a three-story frame building, in the colonial style. This building was remodeled in 1919 and equipped for use by the University Health Service.

*The President's House* (acquired in 1917) is located at 1103 W. Nevada Street, Urbana.

It is a two-story stucco building in the modern English style. It contains the usual living and service rooms of a ten-room house, and is featured by a large living-porch opening into an old fashioned trellis-walled garden.

#### Women's Residence Hall

*The Women's Residence Hall* (erected 1917) is located on Nevada Street north of and adjacent to the new athletic field for women. It is a three-story fireproof brick and stone building of colonial design, U-shaped in plan, with a total frontage of 167 feet and wings running back 101 feet. It will accommodate 112 girls. There are both double and single rooms, a suite for the matron, an emergency hospital, and rooms for servants. The basement contains the kitchen and a large dining room in each wing overlooking the sunken garden in the court. There are also lockers and shower accommodations for non-resident girls who use the adjacent athletic field. In the center of the first floor there is a large living room with adjoining parlors. The wings on each side of the first floor are at a higher line and are occupied by student rooms. There is a large sleeping porch at the south end of each wing on each floor.

#### The Isolation Hospital

*The Isolation Hospital* (erected 1908; reconstructed 1914, 1917, and 1919) has been used for its present purpose since 1914. It is a substantial one-story stucco building 27 by 103 feet, with a subsidiary service building with a kitchen and additional ward space. The basement of the main building contains a supply room, a laboratory, and a complete disinfecting suite, consisting of a formaldehyde room, a septic room, a sterilizing room, and a physicians' wash room, locker room, and sterile room. The first floor is divided into three separate ward units, each with a capacity of seven beds and having a nurse's room with bath, a diet kitchen, a linen closet, a bath room, and a private room for use as an observation room or for serious cases. This building is provided with all necessary sterilizing and antiseptic devices in connection with the wards, in addition to the equipment in the basement.

#### Service Buildings

*The Central Heat and Power Plant* (old boiler house erected 1902; new boiler house, 1910 and 1914). The old boiler house, 55 by 120 feet, is no longer used as part of the power plant, but serves as a University garage, and a special laboratory of the College of Engineering for experiments dealing with the fatigue of metals. The new boiler house, designed to be enlarged as necessity requires, is equipped with four 500-horsepower B. & W. boilers with green chain grates. A power plant containing a 250-kilowatt Allis-Chalmers direct connected steam engine and dynamo, a 125-kilowatt direct connected Westinghouse engine and generator, and a 100 kilowatt Curtiss turbo-generator, together with the accessories necessary to a complete power station, supplies current for light and power to all parts of the grounds. The pipe lines of the heating system and the circuits for distributing electricity are carried from the central plant to the several buildings through brick and concrete tunnels and clay and concrete conduits. There are now 6,568 feet of tunnels and 10,105 feet of conduit for the distribution of steam, and 48,850 duct feet of conduit for the distribution of electricity. The new boiler and power plant provides temporary quarters for the electric test car of the department of railway engineering.

*The Pumping Station* of the University water-works is a brick building, 38 by 73 feet, connected with the central heating station. Four 8-inch wells, 145 feet deep, one 12-inch well 148 feet deep, and a 24-inch well 170 feet deep, supply the University with water. A masonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work, and also to vary the working conditions in the adjacent hydraulics laboratory. In this building is kept the equipment of the University fire department, including an electric automatic hose and chemical wagon.

## BUILDINGS IN CHICAGO

*The College of Medicine Building*, in which are housed all the departments except that of anatomy, is a brick and stone structure two hundred feet long by one hundred and ten feet deep and five stories high, fronting on three streets. The building contains three lecture rooms with a seating capacity of two hundred each; a clinical amphitheater with a seating capacity of over three hundred; an assembly hall with a seating capacity of seven hundred; besides recitation rooms. It also contains laboratories for physiology, chemistry, materia medica, therapeutics, and microscopical and chemical diagnosis, each accommodating from fifty to one hundred students at a time.

A three-story annex to the main building contains the laboratories used by the departments of pathology, bacteriology, and chemistry. All of these laboratories have outside light and are furnished with work tables, desks, lockers, and the necessary apparatus. There is a supply of microscopes, lenses, and oil immersions, and a projection apparatus for the illustration of lectures by means of stereopticon views.

*The College of Dentistry* is housed in a six-story building containing three amphitheatres, a clinical operating room, an infirmary, recitation rooms, the laboratories of gross anatomy and of prosthetic and operative dentistry, administrative offices, three dental depots, and four special laboratories, for research in histology and pathology, for anatomical modeling, for porcelain work, and for instructional and diagnostic work in radiography. The building adjoins that of the College of Medicine.

*The School of Pharmacy*.—In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets and comprising eight city lots with two large brick buildings, connected by a fireproof central stairway tower. The new quarters were occupied in June, 1916.

The buildings include two substantial brick structures connected at each floor by a stair-tower building. Both have daylight from four sides and electric light throughout, and are heated by steam.

The larger building is sixty by eighty feet square and four stories high. It contains the offices, the library, the museum, the microscopical laboratory, the bacteriological laboratory, an auditorium, a lecture hall, a recitation room, preparation rooms and private laboratories for the teachers, students' rooms, and locker rooms.

The smaller building is forty-four by eighty-eight feet square and three stories high. It contains the pharmaceutical laboratory, the laboratory for quantitative analysis, the laboratory for qualitative analysis, and several private laboratories for the teachers, as well as store rooms and supply rooms.

The stair-tower building, of fireproof construction, provides the students' entrance, stairways to each floor, corridors, toilets, and rooms for the hydrogen sulphide generator and distilled water supply.

## LIBRARIES

(For the Library Staff see page 33.)

The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana and also the libraries of the College of Medicine and the School of Pharmacy in Chicago.

On March 1, 1920, the contents of the several libraries were as follows:

In Urbana:	Volumes	Pamphlets	Maps	Sheet Music
General library, including departmental collections. . . . .	428,497	49,953	2,128	5,077
State Laboratory of Natural History library. . . . .	10,398	52,459	94	.....
State Geological Survey library. . . . .	2,430	5,400	1,050	.....
 In Chicago:				
College of Medicine library. . . . .	21,025	2,354	.....	.....
Pharmacy library. . . . .	3,694	1,200	.....	.....
 Total in the University. . . . .	<hr/> 466,044	<hr/> 111,366	<hr/> 3,262	<hr/> 5,077

The Library is housed, for the most part, in the Library Building, and is for the use of the whole University. The officers of instruction and administration of the University, the graduate students, and the members of the senior class have direct access to the shelves; other students may have this privilege on the recommendation of their instructors. All students have the direct use of 10,700 volumes in the reading rooms, and in addition advanced students have the use of the seminar libraries. About 3,000 periodicals are currently received.

As a part of the Library are included several special collections: The *University of Illinois collection*, including printed material illustrating the history of the University: about 300 volumes. *College Publication collection*, comprising the catalogs, announcements, reports, studies, etc., of other educational institutions: about 5,500 volumes. *Thesis collection*, a complete file of the original copies of the theses presented for graduation from the University, bound and filed by years: 2,160 volumes. The *Collection of School Reports*, a cataloged collection of school reports, courses of study, and other documents published by public school authorities throughout the United States. The *Dziatzko Collection of Library Economy*, the entire library of Karl Dziatzko, librarian of Göttingen University: 300 volumes, 250 pamphlets, bought in 1905. The *Dittenberger Collection of the Classics*, the entire library of Wilhelm Dittenberger, professor of Classical Philology in the University of Halle: 5,600 items, bought in 1907. The *Heyne collection*, the philological library of Professor Moritz Heyne of the University of Göttingen: about 5,000 items, principally on German philology and literature, bought in 1909. The *Karsten collection*, principally on French and German philology and literature, the library of the late Professor Gustaf E. Karsten, presented by Mrs. Eleanor G. Karsten. The *Grober collection*, the entire library of the late Professor Gustav Grober, of Strasburg: 6,300 titles, principally on the Romance languages, purchased in 1912. The *Vahlen collection*, the entire classical library of the late Professor Johannes Vahlen, of Berlin: 10,000 volumes, purchased in 1913. The *Aron collection*, the pedagogical library of the late Dr. R. Aron, of Berlin: 20,000 volumes, purchased in 1913. The *Carl Martin James collection*, 1030 volumes relating to statistics and similar subjects, presented in 1915 by President Edmund J. James. The *D. C. Greene collection*, 219 volumes of books and newspapers relating to Japan, presented in 1915 by Professor E. B. Greene. The *Rattermann collection*, of German-American literature and history: 7,000 volumes, purchased in 1915. The *Amanda K. Cosad collection*, relating to history, economics, politics, and education: 1,732 volumes, presented in 1916 by President Edmund J. James. The *Constance Barlow-Smith collection*, of musical scores: manuscript books, and portraits, presented in 1916 by Mrs. Constance Barlow-Smith.

A number of departmental and college libraries and reading rooms are maintained in various buildings on the campus; these libraries do not necessarily contain all the books in the respective subjects. In some instances they are primarily for the use of the graduate students and advanced undergraduate students in the departments using the respective buildings. The principal departmental libraries and reading rooms are the following:

<i>Name of Library</i>	<i>Location</i>	<i>Volumes</i>
Philosophy, Psychology, and Education	Lincoln Hall	15,900
Classics	Lincoln Hall	22,986
Modern Languages	Lincoln Hall	27,000
English	Lincoln Hall	16,400
History and Political Science	Lincoln Hall	20,000
Economics and Sociology	Lincoln Hall	24,000
Natural History	Natural History Building	22,377
Law	Law Building	22,000
Commerce Reading Room	Commerce Building	1,920
Architecture, Ricker Library of	Engineering Building	4,700
Agriculture Reading Room	Agricultural Building	9,000
Chemistry	Chemistry Building	10,500
Physics	Physics Building	1,490
Mathematics	Natural History Building	5,610
Engineering	Engineering Building	8,100



*Mason Library of Western History.* The library of western history collected by Edward G. Mason, Esq., long president of the Chicago Historical Society, is in the Public Library of the city of Champaign, and is accessible to students in the University.

## MUSEUMS AND COLLECTIONS

### College of Liberal Arts and Sciences

#### *Liberal Arts Group*

*Art.*—A collection of casts, photographs, and engravings presented to the University in 1876 by citizens of the community has, for want of a suitable gallery, been placed in different buildings on the campus. Eight large statues are in the Auditorium foyer. Numerous pieces are now in the studios of the department of art and design in University Hall, and others are in the corridors and class rooms of University Hall, Lincoln Hall, Natural History Hall, and the Library. A collection of eighty-one German and Japanese prints purchased by the department of art and design from the St. Louis Exposition in 1905 is displayed in the rooms of the department of art and design.

Other collections of value to art students, consisting of a number of casts of Moorish, Spanish, and German ornament and miscellaneous casts, models, prints, and drawings, are placed in the studios and corridors of the department of art and design.

*Classical Archeology and Art.*—This museum is located in Rooms 402, 404, and 406 Lincoln Hall and contains casts and photographs of Greek and Roman sculpture; colored reproductions of ancient painting; many objects from the finds of the Egypt Exploration Fund, received through the generosity of Mr. W. G. Hibbard, Jr., of Chicago; numerous ancient coins, thirty Greek papyri; and other originals and models of Greek and Roman antiquities. About 2,200 photographs exhibit important historic sites and archeological remains and in addition there are available 1,900 slides belonging to the department of classics. The museum is open on Sunday, Wednesday and Saturday afternoons.

*Oriental Museum.*—This museum occupies temporary quarters in 410 Lincoln Hall. Among its collections are 1,700 unpublished cuneiform tablets, the majority from Drehem, Umma, and Larsa, dating from the twenty-ninth to the twentieth century B. C., the others from the period of Nebuchadnezzar; a collection of Babylonian seals; fragments of Assyrian and Babylonian bricks with royal inscriptions; pottery, slate palettes, mummy case fragments, mummified sacred birds, and small objects from Egypt, the gift of Mr. W. G. Hibbard, Jr., of Chicago; a collection of Egyptian alabasters; a unique collection of squeezes or paper impressions of Hittite and Assyrian inscriptions, loaned by Dr. B. B. Charles of Philadelphia; squeezes of Phoenician inscriptions; a loan collection of pottery and pottery fragments representing the survey of two hundred ancient sites in the Near East; a loan collection of objects from Palestine, including two Hebrew manuscripts, models of domestic furniture, pottery, and prehistoric implements, a large number of unpublished photographs of the Near East.

*Education.*—In Room 417, University Hall, is a collection of illustrative material from the manual training departments of various schools; photographs of school buildings; drawings and constructive work by pupils in the public schools; and the nucleus of a collection of apparatus for the school laboratory.

*European Culture.*—The Museum of European Culture is in the north wing of Lincoln Hall. It contains casts of Romanesque, Gothic, and Renaissance sculpture; color reproductions of masterpieces of painting; originals and facsimiles of medieval manuscripts, early printed books, and early maps of the world; originals and reproductions of medieval arms and armor and of prehistoric and early historic antiquities; theater models and prints of theaters and actors; peasant costumes; ship models; reproductions of early church ivory carving and metal work; about 350 coins; carbon prints of cathedrals and other

photographic material; reproductions of runic inscriptions, early musical instruments, and other objects. The museum is open on Sunday, Monday, Wednesday, and Friday afternoons, and Saturday mornings.

### *Science Group*

*Laboratories.*—The departmental laboratories occupy twenty rooms in University Hall. They make provision for research, undergraduate instruction in drill-courses, demonstrations in the lecture-room, the testing of mental capacity and of mental defect, and the study of the animal mind. Besides standard equipment in all branches, the laboratories contain special apparatus for spectroscopic and chronographic methods and for the investigation of memory and association. Provision is made for research in psychological optics and acoustics. The work-shop is equipped for the construction of delicate apparatus and of instruments of precision. The departmental library contains complete files of foreign and American journals and a working collection for experimental and historical study. The history of the science and of its antecedents in physiognomy, anthropology, and phrenology is further provided for in the departmental museum, which contains a large collection of casts, portraits, documents, and other objects of human and of psychological interest.

*Botany.*—The herbarium contains over 100,000 sheets of mounted specimens. It is representative of the higher plants and fungi of Champaign County and of the State, and forms a collection for the general flora of the United States. Through the acquisition of the herbaria of the late Dr. Frederick Brendel of Peoria, the late Dr. W. Welsch of Mascoutah, the late Dr. Jacob Schneck of Mount Carmel, and Professor W. E. Andrews of Pana, and the earlier gift of the large personal herbarium of Mrs. Agnes Chase, its value for students of the Illinois flora has been largely increased. Because of the interest of the late Professor Burrill and his special students, Clinton, Earle, Seymour, and others, in the study of parasitic fungi, the part of the herbarium devoted to the representation of plants of this group is rich in material records of investigation. This group was greatly enriched by the Stevens collection of Porto Rican fungi, fourteen thousand numbers, presented by Professor F. L. Stevens in 1916. The published "exsiccatae" in this group are well represented. The recent gift of her personal set of the Phycotheca Boreali-Americana by Mrs. Mary S. Snyder has increased the reference value of the herbarium for students of algae, of which it represents over 2,000 named species.

*Entomology.*—The entomology collections of the University include a reference series of 6,400 specimens, representing 1,600 common species; and the Bolter collection, given to the University by the executors of the estate of the late Andreas Bolter of Chicago, which now contains about 120,000 specimens representing over 16,000 species. The department has access, also, to the insect collections of the State Laboratory of Natural History, which contain 330,000 pinned insects and 26,000 vials and bottles of specimens in alcohol, mainly from Illinois.

*Geology.*—The department has adequate working collections which illustrate the principal phases of geology, including 10,000 hand specimens of rocks, 3,000 thin sections for microscopic study, over 12,000 minerals, and 60,000 fossils. In the corridors of the Natural History Building are exhibits of gems and precious stones, meteorites, polished ornamental stones, and specimens illustrating geologic structures, and the principal types of rocks, minerals, and fossils. The collections available for advanced students include those of Tyler McWhorter, Hertzner, and the greater part of the specimens collected both privately and for the State Geological Survey by A. H. Worthen.

*Geography.*—The geography collection consists of a complete file of the United States topographic maps; a collection of U. S. Geological Survey folios; combined contour maps representing the physiographic provinces of the United States; a collection of foreign topographic maps; rainfall and vegetation maps; relief models of all the continents and of smaller areas; and several thousand lantern slides.

*Zoology.*—The zoology collections illustrate the work in zoology and present a synoptical view of the zoology of the State. Most of them are placed in the museum room in the Natural History Building, and in adjacent corridors. The mounted mammals include a collection of the ruminants of the United States and representatives of the other orders of Mammalia except the Sirenia. The same orders are also represented by mounted skeletons. There are also a collection of mounted birds; the Barnum collection of bird's eggs; a collection of nests and eggs of Illinois birds; a series of mounted skins of larger species of cold-blooded vertebrates, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens; and casts; alcoholic specimens of all classes and orders of Mollusca, and dissections showing the internal anatomy of typical forms; several thousand shells, belonging to more than 2,000 species. (The collection of the Illinois aquatic species is nearly complete.) Several hundred dried specimens and alcoholics, and a series of Blanschka glass models of the lower invertebrates; several sets of Ziegler wax models and series of sections and other preparations showing the embryology of vertebrates and invertebrates.

In addition to the foregoing, the collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

#### College of Commerce and Business Administration

*Commerce.*—For its courses in industrial economics and commerce the University has a collection of the materials of commerce; lanterns and several hundred slides; political and industrial maps; and diagrams and stereoscopic views illustrating phases of commerce and industry. Most of the articles constituting the commercial museum are the gifts of the Philadelphia Commercial Museum and of private manufacturing and mercantile establishments.

#### College of Engineering

The several departments of the College of Engineering possess collections of historic materials drawn from their respective fields of practise. The department of railway engineering maintains exhibits of track rails typifying practise since the beginning of railway construction; many details employed in car and locomotive construction, historic and modern; and an extensive collection of photographs and prints. The department of mechanical engineering is the custodian of a 600 h.p. vertical triple-expansion engine, direct connected to an electric generator, a type of machine in common use for power station service twenty years ago, and numerous machines of historical value together with a collection of exhibits of engineering apparatus. The departments of civil engineering and theoretical and applied mechanics maintain exhibits of tested specimens and structures. The department of architecture has a number of reproductions of fragments from historic architectural monuments. The mining museum has a comprehensive collection of models showing the methods of working coal and ore mines and both sectionalized and operating mining machines, and appliances. There is a collection of photographs and blue prints illustrating all phases of mining and metallurgical design and construction. Six stereoscopes with over one hundred views illustrate South African mining practise.

All such material occupies temporary locations. No especially appointed building designed for its reception has thus far been provided.

#### College of Agriculture

The agricultural departments maintain collections illustrative of their work; among which are specimens of standard varieties of corn; wax models of fruit and vegetables; a horticulture herbarium; specimens of breeds of live stock; a collection of farm machinery,

and exhibits of negatives and samples showing the progress of investigations with fruit, crops, and soils.

See further the description of the facilities for instruction and methods of work of the departments of agronomy, animal husbandry, dairy husbandry, and horticulture, under the College of Agriculture, in Part II.

### **Library School**

The School has made a collection of books and pamphlets on library science; of library reports and catalogs; of mounted samples showing methods of administration in libraries; and of books, photographs, and lantern slides illustrating library architecture and the history of books, printing, and libraries.

# ADMINISTRATION

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## GOVERNMENT

The government of the University is vested by law primarily in a Board of Trustees, consisting of eleven members. The Governor of the State and the Superintendent of Public Instruction are members *ex officio*. The other nine members are elected by the people of the State for terms of six years; the terms of three members expire every second year.

The administration of the University is vested by the Board of Trustees in the President of the University, the Vice-President, the Senate, the Council of Administration, the Faculties of the several colleges, and the Deans of the colleges and Directors of the schools.

The President is the administrative head of the University.

The Senate is composed of the full professors and those other members of the faculty who are in charge of separate departments of the various colleges and schools. It is charged with the direction of the general educational policy of the University.

The Council of Administration is composed of the President, the Vice-President, the Dean of the Graduate School, the Deans of Men and Women, the Military Commandant, and the Deans of the several colleges. It constitutes an advisory board to the President, and has exclusive jurisdiction over all matters of discipline. The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage or by rule of the Senate and cannot be conveniently laid over until the next meeting of the Senate, the Council may act on the same according to its discretion.

The Faculties of the colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction, subject to higher University authority, over all matters which pertain exclusively to these organizations.

The Dean of the Graduate School, the Deans of the several colleges, and the Directors of the schools are responsible for the carrying out of all University regulations within their respective departments.

## DEPARTMENTS AND COURSES

For the purpose of administration the University is divided into several colleges and schools. These are not educationally separate, but are interdependent and form a single unit.

The colleges and schools are as follows:

- I. The College of Liberal Arts and Sciences.
- II. The College of Commerce and Business Administration
- III. The College of Engineering.
- IV. The College of Agriculture
- V. The Graduate School
- VI. The Library School
- VII. The School of Music
- VIII. The College of Education
- IX. The School of Railway Engineering and Administration
- X. The College of Law
- XI. The College of Medicine
- XII. The College of Dentistry
- XIII. The School of Pharmacy

*The College of Liberal Arts and Sciences* offers curriculums in:—(1) philosophy and arts, including (a) the ancient classical languages; (b) the Romance languages; (c) the Germanic languages; (d) the English language and literature, including rhetoric and public speaking; (e) comparative literature; (f) comparative philology; (g) mathematics; (h) the political and social sciences: history, economics, political science, sociology; (i) philosophical subjects; philosophy, psychology, education; (j) art and design. (2) general science, affording opportunity to specialize in (a) astronomy; (b) geology, including mineralogy and geography; (c) physics; (d) chemistry; (e) botany, including bacteriology; (f) zoology; (g) entomology; (h) physiology. By the grouping of certain subjects students in this College are also offered opportunities for specific vocational and professional training as follows: (1) journalism; (2) chemistry; (3) chemical engineering; (4) home economics and household administration; (5) library administration; (6) law (combined course); (7) medicine (combined course); (8) engineering (combined course).

*The College of Commerce and Business Administration* offers curriculums in:—(1) general business; (2) commercial and civic secretarial service; (3) banking; (4) insurance; (5) accountancy; (6) general railway administration; (7) railway transportation; (8) commercial teaching; (9) foreign commerce; (10) industrial administration; (11) commerce and law.

*The College of Engineering* offers curriculums in:—(1) architecture; (2) architectural engineering; (3) ceramic engineering; (4) civil engineering; (5) electrical engineering; (6) mechanical engineering; (7) mining and metallurgical engineering; (8) municipal and sanitary engineering; (9) general engineering physics; (10) railway civil engineering; (11) railway electrical engineering; (12) railway mechanical engineering.

*The College of Agriculture* offers curriculums in:—(1) agronomy; (2) horticulture, floriculture, and landscape gardening; (3) animal husbandry; (4) dairy husbandry; (5) home economics; (6) agricultural extension.

*Military science and physical education* are provided in all the undergraduate colleges in Urbana.

*The Graduate School* offers courses in:—philology, including the classical languages, Romance languages, Germanic languages, and English; mathematics; political and social sciences, including history, economics, sociology, and political science; philosophy, including psychology and education; physical sciences, including physics, chemistry, astronomy, and geology; biology, including botany, zoology, entomology, physiology, and bacteriology; engineering, including architecture, architectural engineering, ceramic engineering, civil engineering, electrical engineering, mechanical engineering, mechanics, mining engineering, municipal and sanitary engineering, and railway engineering; agriculture, including agronomy, animal husbandry, dairy husbandry, genetics, horticulture and floriculture, and home economics.

*The Library School* offers to college graduates a professional curriculum of two years in preparation for librarianship, leading to the degree of Bachelor of Library Science.

*The School of Music* offers curriculums in vocal and instrumental music, leading to the degree of Bachelor of Music, and provides training in public school methods in music.

*The College of Education* offers curriculums in:—(1) teaching and school administration (two-year professional curriculum, based on two years of college work; (2) athletic coaching (four-year undergraduate curriculum); (3) industrial education—four-year curriculums for teachers of "related subjects" and for teachers of "un-vocational subjects" under the Smith-Hughes Act, and a two-year curriculum for teachers of "general continuation subjects" under the same Act; (4) curriculums in agricultural education and in home-economics education, meeting the requirements for teacher-training in these branches under the Smith-Hughes Act.

*The School of Railway Engineering and Administration* offers curriculums leading to the degree of Bachelor of Science in railway civil, railway electrical, and railway mechanical

engineering; and also curriculums in railway transportation and in railway administration, leading to the degree of Bachelor of Arts.

*The College of Law* offers curriculums of three years and four years leading to the degree of Bachelor of Laws.

Students holding the bachelor's degree in arts or science may become candidates in this College for the degree of Doctor of Law (J.D.).

*The College of Medicine* (Chicago) requires for admission two years of college work in liberal arts and sciences, and offers a four-year curriculum; at the end of the first two years the degree of Bachelor of Science is conferred, and at the end of the four years the degree of Doctor of Medicine. (For students matriculating in the College after July 1, 1917, and graduating after June 30, 1922, the completion of a year of hospital service is required for the degree of Doctor of Medicine.)

*The College of Dentistry* (Chicago) offers a four-year curriculum leading to the degree of Doctor of Dental Surgery.

*The School of Pharmacy* (Chicago) offers a curriculum of two years leading to the degree of Graduate in Pharmacy, and a curriculum of three years leading to the degree of Pharmaceutical Chemist.

*The Summer Session*, of eight weeks, offered in 1919, courses in accountancy, agriculture, art and design, botany, chemistry, civil engineering, economics, education, English, entomology, French, general engineering drawing, German, history, home economics, industrial education, Latin, library science, mathematics, mechanical engineering, mechanics (theoretical and applied), music, philosophy, physical education for men and for women, physics, political science, psychology, public health and sanitation, rhetoric, sociology, Spanish, transportation, and zoology.

All the courses given in the Summer Session are of collegiate grade and may be counted toward the bachelor's degree. Certain advanced courses may be counted toward the master's degree.

# ADMISSION

## GENERAL STATEMENT

An applicant for admission to any of the colleges or schools of the University must be at least sixteen years of age. Candidates for admission to the College of Dentistry (Chicago), and to the School of Pharmacy (Chicago), must be seventeen years of age.

Women are admitted to all departments under the same conditions and on the same terms as men.

Students may be admitted at any time except to the professional departments in Chicago (Medicine, Dentistry, and Pharmacy), but should enter if possible at the beginning of the fall semester (in 1920, September 20) or at the beginning of the spring semester (in 1921, February 7). Students can seldom enter the College of Engineering to advantage except at the opening of the school year in September. Candidates are received in the departments of Medicine, Dentistry, and Pharmacy only at the beginning of the first semester (during the first ten days of October).

## THE UNDERGRADUATE COLLEGES

The entrance requirements for the *undergraduate departments*, including the colleges of LIBERAL ARTS and SCIENCES, COMMERCE AND BUSINESS ADMINISTRATION, ENGINEERING, and AGRICULTURE, the SCHOOL OF MUSIC, and the curriculums in Athletic Coaching and Industrial Education in the COLLEGE OF EDUCATION, amounting in each case to 15 units<sup>1</sup> of high-school work, are stated in detail immediately below.

A candidate for admission *by certificate* must be a *graduate* of an accredited high school or other accredited school.

An applicant *who has not been graduated* from an accredited school must pass entrance examinations in the following subjects, amounting to 5 units<sup>1</sup>:

English composition .....	1 unit
Algebra .....	1 unit
Additional subjects to be designated by the University authorities .....	3 units
Total .....	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from an accredited school.

## Number of Units Required

Fifteen units<sup>2</sup> of high-school or other secondary-school work, in acceptable subjects (see Lists A, B, and C below), must be offered by every candidate. (But see "Admission on Probation on Principal's Recommendation," p. 72.)

## Deficiencies

*No quantitative conditions are permitted.* In other words, every student must offer at the time of admission 15 units in acceptable subjects. These must include the 6 units specifically prescribed for all the undergraduate colleges (see List A below). It is provided, however, that a student who offers 15 acceptable units including the 6 units of List A, but is

<sup>1</sup>For the definition of unit, see Note 2.

<sup>2</sup>A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practise.



deficient not to exceed 2 units in subjects prescribed only for the college or curriculum which he wishes to enter (see below), may be admitted in that college or curriculum to courses for which he is fully prepared, subject to the requirement that the deficiencies in question shall be removed before he may register for a second year's work.

A student with deficiencies is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$15.00 a semester.

## Prescribed Subjects

### Summary

The 15 units<sup>1</sup> offered for admission must include:

I. Certain subjects <i>prescribed alike for all curriculums</i> (see List A below).....	6 units
II. Certain subjects <i>prescribed in addition for the individual curriculum</i> which the student wishes to enter.....	0 to 4 units
III. Enough <i>electives from List B</i> (below) to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.....	6 to 2 units
IV. <i>Three additional units</i> , which may be chosen either from List B or from the additional electives of List C (below).....	3 units
Total.....	15 units

### Detailed Statement

#### 1. Units Prescribed for All Curriculums

Of the 15 units required, the following 6 units, constituting List A, are *prescribed* for admission to the freshman class in *all* the undergraduate curriculums of the university, and no substitutes are accepted:

#### LIST A

English (composition and literature).....	3 units
Algebra <sup>1</sup> .....	1 unit
Plane geometry.....	1 unit
Physics, or chemistry, or botany, or zoology, or physiology, or physiography, with laboratory work.....	1 unit
Total.....	6 units

#### II. Additional Prescriptions for Individual Curriculums

Of the 9 units that remain, certain others are *prescribed* for admission to *individual curriculums*, and in each case no substitutes are accepted for the curriculum in question. These additional prescriptions are as follows:

- For the *General Curriculum*, the *Curriculum in Journalism*, and the *Pre-Legal Curriculum*, in the *College of Liberal Arts and Sciences*—  
Latin, Greek, French, German, or Spanish (both units in the same language)..  
2 units
- For the curriculums in *Household Administration*<sup>2</sup> and for *Home-Economics Teachers*<sup>2</sup>, in the *College of Liberal Arts and Sciences* (see also paragraph 9)—  
Latin, Greek, French, German, or Spanish (both units in the same language)..  
2 units  
Physics (if not offered for List A).....  
1 unit
- For the *Pre-Medical Curriculum*<sup>2</sup>, in the *College of Liberal Arts and Sciences*—  
Latin, Greek, French, or German (both units in the same language).....  
2 units  
History and civics.....  
1 unit
- For the curriculums in *Chemistry* and *Chemical Engineering*, in the *College of Liberal Arts and Sciences*—  
German or French (both units in the same language).....  
2 units  
Chemistry (in addition to another unit of laboratory science for List A).....  
1 unit  
Advanced algebra.....  
 $\frac{1}{2}$  unit
- For the *College of Commerce and Business Administration*<sup>1</sup>—  
(a) Latin, Greek, French, German, or Spanish (both units in the same language).....  
2 units  
OR  
(b) { Advanced algebra.....  
and  $\frac{1}{2}$  unit  
Solid and spherical geometry.....  
OR  $\frac{1}{2}$  unit  
(c) Science (in addition to the unit for List A).....  
1 unit

<sup>1</sup> See footnote 2, page 68.

<sup>2</sup> It is desirable that students who intend to pursue curriculums involving college mathematics, physics, or advanced chemistry, including the curriculums in home economics, the pre-medical curriculum, and the curriculums in commerce and business administration in which university courses in mathematics are prescribed, should present for admission *one-half unit of advanced algebra* in addition to the required unit of List A.

6. For the curriculums in *Athletic Coaching and Vocational Education* the *College of Education*—  
No special prescriptions; but candidates for the curriculum in Athletic Coaching must pass physical and medical examinations.
7. For the *College of Engineering*—  
Advanced algebra.....  $\frac{1}{2}$  unit  
Solid and spherical geometry.....  $\frac{1}{2}$  unit
8. For the *College of Agriculture*, for the agricultural curriculums—  
Science (in addition to the unit for List A)..... 1 unit
9. For the *College of Agriculture*, for the *Curriculum in Home Economics*<sup>1</sup> (see also paragraph 2)—  
Physics (in addition to another unit of laboratory science for List A)..... 1 unit
10. For the *School of Music*—  
Latin, Greek, French, German, or Spanish (both units in the same language)..  
Music..... 2 units

### III. Electives from List B

Enough electives must be chosen from List B below to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.

		Units
Latin.....	36 to 144 weeks	1-4
Greek.....	36 to 108 weeks	1-3
French.....	36 to 144 weeks	1-4
German.....	36 to 144 weeks	1-4
Spanish.....	36 to 144 weeks	1-4
Italian <sup>2</sup> .....	36 to 72 weeks	1-2
Norwegian <sup>2</sup> .....	36 to 72 weeks	1-2
Swedish <sup>2</sup> .....	36 to 72 weeks	1-2
Polish <sup>2</sup> .....	36 to 72 weeks	1-2
English (4th unit).....	36 weeks	1
Advanced algebra <sup>2</sup> .....	18 or 36 weeks	$\frac{1}{2}$ -1
Solid geometry.....	18 weeks	$\frac{1}{2}$
Trigonometry.....	18 weeks	$\frac{1}{2}$
History <sup>3</sup> .....	36 to 144 weeks	1-4
Civics.....	18 or 36 weeks	$\frac{1}{2}$ -1
Economics and economic history.....	18 or 36 weeks	$\frac{1}{2}$ -1
Commercial geography.....	18 or 36 weeks	$\frac{1}{2}$ -1
Astronomy.....	18 weeks	$\frac{1}{2}$
Geology.....	18 or 36 weeks	$\frac{1}{2}$ -1
Physiography.....	18 or 36 weeks	$\frac{1}{2}$ -1
Physiology.....	18 or 36 weeks	$\frac{1}{2}$ -1
Zoology.....	18 or 36 weeks	$\frac{1}{2}$ -1
Botany.....	18 or 36 weeks	$\frac{1}{2}$ -1
Physics.....	36 to 72 weeks	1-2
Chemistry.....	36 to 72 weeks	1-2

### IV. Additional Electives: List C

The remaining 3 units may be chosen either from List B above or from List C:

		Units
Agriculture.....	36 to 108 weeks	1-3
Bookkeeping.....	36 weeks	1
Business law.....	18 weeks	$\frac{1}{2}$
Commercial arithmetic <sup>4</sup> .....	18 weeks	$\frac{1}{2}$
Domestic science.....	36 to 72 weeks	1-2
Drawing, art and design.....	18 or 36 weeks	$\frac{1}{2}$ -1
Drawing, mechanical.....	18 or 36 weeks	$\frac{1}{2}$ -1
Manual training <sup>5</sup> .....	36 to 72 weeks	1-2
Music.....	36 to 72 weeks	1-2
Shorthand and typewriting <sup>7</sup> .....	36 to 72 weeks	1-2

<sup>1</sup>See footnote 2, page 68.

<sup>2</sup>Not accepted in satisfaction of the foreign-language prescription for the colleges of Liberal Arts and Sciences, Commerce and Business Administration, and Medicine, or of the School of Music, but only as an elective.

<sup>3</sup>Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history,  $\frac{1}{2}$  or 1 unit; American history,  $\frac{1}{2}$  or 1 unit.

<sup>4</sup>The subjects named in List C must be taught in accordance with specifications which are set forth in the High School Manual. Further information may be had on application to the High School Visitor.

<sup>5</sup>Accepted only when taken after algebra and plane geometry.

<sup>6</sup>In giving credit for manual training the University specifies that the work is to be done by competent teachers, as determined by inspection, and that credit shall not exceed one unit for 360 forty minute periods of work, including the necessary drawing and shop work.

<sup>7</sup>These two subjects must be offered together; no credit is given for either one offered separately.

## Summary by Colleges and Curriculums

The requirements stated above may be summarized by colleges and curriculums as follows:

- (1) For the *General Curriculum*, the *Curriculum in Journalism*, and the *Pre-Legal Curriculum*, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—
- |   |          |
|---|----------|
| I. List A (prescribed for all curriculums).....                               | 6 units  |
| II. Special prescription for these curriculums—                               |          |
| Latin, Greek, French, German, or Spanish (both units in the same language) .. | 2 units  |
| III. Electives from List B.....   | 4 units  |
| IV. Electives from either List B or List C.....                               | 3 units  |
| Total.....  | 15 units |
- (2) For the curriculums in *Household Administration*<sup>1</sup> and for *Home-Economics Teachers*<sup>1</sup>, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—
- |  |          |
|--|----------|
| I. List A (prescribed for all curriculums).....                                | 6 units  |
| II. Special prescriptions for these curriculums—                               |          |
| Latin, Greek, French, German, or Spanish (both units in the same language) ... | 2 units  |
| Physics (if not offered for List A).....                                       | 1 unit   |
| III. Electives from List B.....  | 3 units  |
| IV. Electives from either List B or List C.....                                | 3 units  |
| Total.....   | 15 units |
- (3) For the *Pre-Medical Curriculum*<sup>1</sup>, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—
- |  |          |
|--|----------|
| I. List A (prescribed for all curriculums).....                        | 6 units  |
| II. Special prescriptions for this curriculum—                         |          |
| Latin, Greek, French, or German (both units in the same language)..... | 2 units  |
| History and civics.....  | 1 unit   |
| III. Electives from List B.....  | 3 units  |
| IV. Electives from either List B or List C.....                        | 3 units  |
| Total.....   | 15 units |
- (4) For the curriculums in *Chemistry* and *Chemical Engineering*, in the COLLEGE OF LIBERAL ARTS AND SCIENCES—
- |   |                      |
|---|----------------------|
| I. List A (prescribed for all curriculums).....                               | 6 units              |
| II. Special prescriptions for these curriculums—                              |                      |
| German or French (both units in the same language).....                       | 2 units              |
| Chemistry (in addition to another unit of laboratory science for List A)..... | 1 unit               |
| Advanced algebra.....   | $\frac{1}{2}$ unit   |
| III. Electives from List B.....   | $2\frac{1}{2}$ units |
| IV. Electives from either List B or List C.....                               | 3 units              |
| Total.....  | 15 units             |
- (5) For the COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION<sup>1</sup>—
- |  |              |
|--|--------------|
| I. List A (prescribed for all curriculums).....                            | 6 units      |
| II. Special prescriptions for this College—                                |              |
| Latin, Greek, French, German, or Spanish (both units in the same language) | 2 units      |
| OR   |              |
| Advanced algebra and solid and spherical geometry.....                     | 1 unit       |
| OR   |              |
| Science (in addition to the unit for List A).....                          | 1 unit       |
| III. Electives from List B.....  | 4 or 5 units |
| IV. Electives from either List B or List C.....                            | 3 units      |
| Total.....   | 15 units     |
- (6) For the curriculums in *Athletic Coaching*<sup>2</sup> and *Industrial Education*, in the COLLEGE OF EDUCATION—
- |  |          |
|--|----------|
| I. List A (prescribed for all curriculums).....  | 6 units  |
| II. Electives from List B.....                   | 6 units  |
| III. Electives from either List B or List C..... | 3 units  |
| Total.....                                       | 15 units |

<sup>1</sup> See foot-note 2, page 69.

<sup>2</sup> Candidates for the curriculum in Athletic Coaching must pass physical and medical examinations.

(7) For the COLLEGE OF ENGINEERING—	
I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this College—	
Advanced algebra.....	$\frac{1}{2}$ unit
Solid and spherical geometry.....	$\frac{1}{2}$ unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units
(8) For the COLLEGE OF AGRICULTURE, for the agricultural curriculums—	
I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for these curriculums—	
Science (in addition to the unit for List A).....	1 unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units
(9) For the COLLEGE OF AGRICULTURE, for the <i>Curriculum in Home Economics</i> <sup>1</sup> —	
I. List A (prescribed for all curriculums).....	6 units
II. Special prescription for this curriculum—	
Physics (in addition to another unit of laboratory science for List A).....	1 unit
III. Electives from List B.....	5 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units
(10) For the SCHOOL OF MUSIC—	
I. List A (prescribed for all curriculums).....	6 units
II. Special prescriptions for this School—	
Latin, Greek, French, German, or Spanish (both units in the same language) ...	2 units
Music.....	2 units
III. Electives from List B.....	2 units
IV. Electives from either List B or List C.....	3 units
Total.....	15 units

### Admission on Probation on Principal's Recommendation

A student who has been graduated from an accredited school, whose high-school course includes fifteen units, six of which are made up from List A, but whose high-school credits do not completely meet the requirements with respect to the selection of electives from Lists B and C, may be admitted to the University *on trial* for one semester *on the special recommendation of his high-school principal*; with the proviso that he shall be dropped automatically at the end of the first semester if he fails in more than one-third of his work, and that if his grades in more than one-fourth of his work are below C he *may* be dropped on the recommendation of his college faculty. Such a student during his trial period is not permitted to take part in any public exhibition, or serve on the staff of any student publication, or hold or become a candidate for any undergraduate office.

### Admission as Special Students

Persons over twenty-one years of age may be admitted as special students in the undergraduate colleges, provided they secure (1) the recommendation of the instructor whose work they wish to take, and (2) the approval of the dean of the college concerned. They must give evidence that they possess the requisite information and ability to pursue profitably, as special students, their chosen subjects, and must meet the special requirements of the particular college in which they wish to enroll, as stated below.

A special student is not matriculated and must pay a tuition fee of \$7.50 a semester in addition to the regular incidental fee of \$15.00 a semester.

No one may enroll as a special student in any school or college of the University *for more than two years*, except by special permission, application for which must be made through the dean of the college.

A person registered as a special student in one college and desiring to take a course in another college of the University must obtain the approval of the dean of the latter college.

<sup>1</sup>See foot-note 2, page 69.

*Special Requirements of the Colleges and Schools*

*The College of Liberal Arts and Sciences* requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory work, and showing honorable dismissal from the school last attended. In order that action may be taken on such applications before registration they should be presented at least one week before the beginning of the semester.

*The College of Engineering* requires that applicants for admission as special students shall satisfy the entrance requirements in mathematics and English (one and one-half years of algebra, one year of plane geometry, one-half year of solid geometry, one year of English composition, and two years of English literature).

*The College of Agriculture* will receive non-matriculants twenty-one years old or over, provided that if deficient in English as measured by the requirements for matriculation, they shall arrange to carry English as one subject until that deficiency is made good; and provided further, in the case of men, that they shall have had at least two years of experience in practical agriculture.

**Sources of Acceptable Credits**

The credits required for admission to the undergraduate departments, as detailed above, may be secured:

(a) By *examination*.

(b) By *certificate* from an accredited high school or other secondary school.

(c) By *transfer* from another university or college of recognized standing.

**(A) Admission by Examination***I. The University Entrance Examinations*

The University entrance examinations are given at the University in Urbana (in Room 100, Commerce Building) three times in each year: in September, immediately before the opening of the fall semester; in January and February, shortly before the opening of the spring semester; and in July, during the Summer Session. Similar examinations are given in Chicago five times in each year, about March 15, June 15, August 25, September 25, and December 15.

These examinations cover all the subjects required or accepted for admission, as outlined in the "Description of Subjects Accepted for Admission" on page 82.

Programs of these various sets of examinations may be obtained by addressing the Registrar.

*II. The Examinations of the College Entrance Examination Board*

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent or higher, will be accepted for admission in any subject in the lists on pages 69 and 70 in the amounts there specified as being acceptable. These examinations will be held during the week of June 21-26, 1920.

All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board on application.

Applications for examination at points in the United States east of the Mississippi River, and at points on the Mississippi River, must be received by the Secretary of the Board at least three weeks in advance of the examinations, that is, on or before Monday, May 31, 1920; applications for examination at points in the United States west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations, that is, on or before Monday, May 24, 1920; and applications for examinations outside of the United States or Canada must be received at least six weeks in advance of the examinations, that is, on or before Monday, May 10, 1920.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidate concerned, but only on payment of \$6.00 in addition to the usual fee.

The examination fee is \$6.00 for all candidates examined at points in the United States or Canada, and \$20.00 for all candidates examined outside of the United States and Canada. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board and should accompany the application.

A list of the places at which examinations are to be held by the Board in June, 1920, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

### III. *The New York Regents' Examinations*

Credits will be accepted, also, from the examinations conducted by the Regents of the University of the State of New York.

#### (B) Admission by Certificate from an Accredited Preparatory School

Blank certificates for students wishing to enter the University by *certificate* from an accredited high school or academy may be had of the Registrar. They should be obtained early and should be filled out and sent to the Registrar for approval as soon as possible after the close of the high-school year in June. Certificates received at the University after September 17 (in 1920) will be held until the arrival of the student unless such certificates are accompanied by an addressed envelope with a special delivery stamp.

#### *Accredited Schools*

The High-School Visitor of the University visits and inspects, on request, high schools and other preparatory schools throughout the State. On the basis of his reports, approved by the Committee on Accredited Schools and by the Council of Administration, the University accredits all work which is found to be sufficiently well done. For a list of accredited schools, correct to February 28, 1920, see page 78. Not all the schools named in this list, however, are accredited for the same amount of work nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited as shown in the certificate of its accredited relation issued to the school by the University.*

Entrance credits will also be accepted on certificate from the following sources:

1. From schools accredited by the North Central Association of Colleges and Secondary Schools.
2. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
3. From schools accredited by the Southern Association of Colleges and Secondary Schools.
4. From schools approved by the New England College Entrance Certificate Board.
5. From high schools and academies registered by the Regents of the University of the State of New York.
6. From the state normal schools of Illinois and other state normal schools having equal requirements for graduation.

*Foreign Students*

Candidates for admission who come from foreign countries should bring complete official credentials. Certificates from Oriental and Slavic countries must be accompanied by certified translations. Upon arriving at the University foreign students should consult with the Assistant Dean of Foreign Students, Room 153, Administration Building.

*No-Credit Course in Rhetoric for Deficient Students*

Early in the first semester the Department of English determines by a series of tests, including the writing of several compositions, the grade of each student's preparation to pursue the freshman work in rhetoric, and places those students who are found to be insufficiently prepared in a special course for which no credit is given.

**(C) Admission by Transfer of Entrance Credits from  
Other Colleges or Universities**

A person who has been admitted to another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution, provided it appears that the subjects are those required here for admission by examination or real equivalents. No substitutes will be accepted for the subjects *prescribed* for all colleges or for individual colleges as indicated above (pages 69-72); except that a student who comes from a college or university rated in Class A by the Committee on Admissions from Higher Institutions, with a record of thirty hours without failures or conditions and with an average grade ten per cent above the passing grade of the college, may be matriculated irrespective of deficiencies in prescribed subjects.

Students intending to transfer to the University of Illinois should send an official statement of their college credits, accompanied by a summary of their preparatory work and by a letter of honorable dismissal, to the Registrar as early in the summer as possible.

**Admission to Advanced Standing**

After matriculation, an applicant may secure advanced standing either by examination or by transfer of credits.

1. *By examination*—Advanced standing is granted only by examination unless the applicant is from an approved school. Examinations for advanced standing are given without fee if taken within 60 days after matriculation; if taken later, a fee of \$5.00 is charged for each examination.

2. *By transfer of credits*—Credits may be accepted for advanced standing from another university or a college or a junior college of recognized standing or from a state normal school. An applicant for advanced standing by transfer must present a certified record of work done in the institution from which he comes, accompanied by a letter of honorable dismissal. Students intending to transfer to the University of Illinois should send their credentials to the Registrar as early in the summer as possible.

**THE PROFESSIONAL SCHOOLS****The College of Education**

For admission to the *two-year professional curriculum* in the COLLEGE OF EDUCATION, leading to the degree of Bachelor of Science in education, a candidate must be able to matriculate in one of the undergraduate colleges and must offer in addition *60 semester hours* of college credit (exclusive of military science).

(For the requirements for the undergraduate curriculums in Athletic Coaching and Industrial Education in this College, see above.)

### The College of Law

For admission to the *three-year curriculum* in the COLLEGE OF LAW as a regular student an applicant must be matriculated and have 60 hours' credit in a college of this University; or have completed two full years of work as given at another college or university of recognized standing, as a matriculated student in such college or university; or have received by transfer 60 hours of university credit here.

Students from other institutions who may fall short of this requirement by not over five hours of credit, by transfer, may be admitted to the three-year curriculum as conditioned students; such conditions to be made up before the beginning of the student's second year in the College.

For admission to the *four-year curriculum* as a regular student, an applicant must be matriculated and have 30 hours' credit in a college of this University, or its equivalent from another college or university of recognized standing. No conditions are permitted for admission to the four-year curriculum.

A student who is twenty-one years of age and is entitled to admission as a regular student to the freshman class of another college of this University may be admitted as a *special student* in the College of Law. If he attains in the courses of the first year an average grade of C or over, he will be admitted to regular standing, and he may receive the degree of Bachelor of Laws if in all the courses he presents for the degree his average grade is C or more.

### The Library School

Admission to the LIBRARY SCHOOL is conditioned on the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training. No entrance examinations are required.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, generally not later than August 1. It is to the candidate's interest to present his application and certificates early, in order that the question of admission may be settled before he comes to Urbana.

For admission as a *special student* to the Library School a written application is required, accompanied by official certificates, indicating the character and extent of the applicant's preparatory and college work. In order that action may be taken on such applications before registration day, they should generally be presented not later than July 1. It is the practise of this School to admit as *special students* only those persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for thoro and advanced work. Such persons must present evidence of possessing the requisite information and ability to pursue the chosen subjects profitably, and some substitute for the lacking requirements for entrance, such as approved library or teaching experience or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the curriculum prescribed for those who are candidates for the degree of Bachelor of Library Science, or failing that, as much of the prescribed work as they are prepared for.

### The College of Medicine (Chicago)

For admission to the COLLEGE OF MEDICINE, candidates must present:

1. Four years' work in an accredited high school or the equivalent, comprising not less than 15 units in acceptable subjects, including prescribed subjects as follows:

English.....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
Latin, Greek, German, or French (both units in the same language).....	2 units
History and civics.....	1 unit
Electives.....	7 units

Total..... 15 units



2. Two years' work in a recognized college or university, comprising not less than 60 semester hours, and including prescribed subjects as follows:

Chemistry.....	12 semester hours
Physics (see Note 1).....	8 semester hours
Biology (see Note 2).....	8 semester hours
English (see Note 3).....	6 semester hours
German, French, Spanish, or Italian (see Note 4).....	6 semester hours
Electives outside of the chemical, physical, and biological sciences (see Note 5).....	6 semester hours
Free electives (see Note 5).....	14 semester hours
<b>Total.....</b>	<b>60 semester hours</b>

*Note 1: Physics.*—At least 2 of these 8 semester hours must consist of laboratory work. This requirement may be satisfied by 6 semester hours of college physics, of which at least 2 must be laboratory work, if preceded by a year (one unit) of high-school physics.

*Note 2: Biology.*—Four of these 8 semester hours must consist of laboratory work. This requirement may be satisfied by a course of 8 semester hours in either general biology or zoology, or by courses of 4 semester hours each in zoology and botany, but not by botany alone.

*Note 3: English.*—The usual introductory college course of 6 semester hours in English composition and literature is intended.

*Note 4: German, French, Spanish, or Italian.*—German or French is preferred. The student is strongly urged to secure a reading knowledge of one of these languages. This will ordinarily require at least two years' work in the high school followed by at least 6 hours' work in the same language in college, or two years' work (at least 12 hours) in college if the language was not begun in the high school, or the equivalent.

*Note 5: Electives.*—As desirable electives the following subjects are suggested: psychology; college algebra and trigonometry; additional English; economics, history, sociology, political science; logic; Latin; Greek; drawing. Among the free electives advanced chemistry, zoology, and botany may be offered.

*No conditions are permitted.* Candidates for admission who in June, 1920, will have completed the above requirements except for a few hours in collegiate subjects should plan to make up these deficiencies in full by attendance at summer sessions during the summer of 1920.

### The College of Dentistry (Chicago)<sup>1</sup>

The requirements for the COLLEGE OF DENTISTRY are the same as those for the undergraduate colleges at Urbana with respect to *high-school graduation*, the *number of units* required, the *acceptable subjects*, and the *prescribed subjects of List A* (see pages 69 and 70 above), except that *physics* is prescribed as the laboratory science of List A.

The required fifteen units may be summarized as follows:

I. Prescribed subjects—	
English (composition and literature).....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
Physics (with laboratory work).....	1 unit
II. Electives from List B (see page 70).....	6 units
III. Electives from either List B or List C (see page 70).....	3 units
<b>Total.....</b>	<b>15 units</b>

A student who is a graduate of an accredited high school with 15 units in acceptable subjects, including 3 in English, 1 in algebra, 1 in plane geometry, and 1 in *laboratory science other than physics*, may be admitted with a deficiency of one unit in physics. Such a student must remove this deficiency before he may register for his second year in the College of Dentistry.

### The School of Pharmacy (Chicago)

The requirements for the SCHOOL OF PHARMACY are the same as those for the undergraduate colleges at Urbana with respect to *high-school graduation*, the *number of units* required, the *acceptable subjects*, and the *prescribed subjects of List A* (see pages 69 and 70 above).

The required fifteen units may be summarized as follows:

I. Prescribed subjects (List A)—	
English (composition and literature).....	3 units
Algebra.....	1 unit
Plane geometry.....	1 unit
Physics, or chemistry, or botany, or zoology, or physiology, or physiography, with laboratory work.....	1 unit
II. Electives from List B (see page 70).....	6 units
III. Electives from either List B or List C (see page 70).....	3 units
<b>Total.....</b>	<b>15 units</b>

<sup>1</sup>For new requirements effective January 1, 1921, see page 233.

## THE GRADUATE SCHOOL

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty, as hereinafter provided. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. Such candidacy is determined by the Faculty after the student has demonstrated by his work here, for from two to five months, that he has the ability to do major work of graduate character. A mere accumulation of "credits" or "grades" is not sufficient.*

A graduate of an institution meeting the requirements of a standard college (see p. 170) may be admitted to the Graduate School, provided he satisfies the Dean and the departments concerned that he will be able to proceed to the master's degree in a period not exceeding two years.

## LIST OF ACCREDITED SCHOOLS

(Correct to February 14, 1920)

The following high schools, having all the *prescribed* units, and enough others to make up the *required total* of 15 units, are in the list of fully accredited schools.

Not all of these schools, however, are accredited for the same amount of work, nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited, as shown in the certificate of its accredited relation issued by the University.*

The High-School Visitor of the University, on request, inspects high schools not previously accredited, if the request is accompanied by a report of the school which shows that it merits such inspection. The University accredits all work which is thus found to be sufficiently well done. For further particulars address THE HIGH-SCHOOL VISITOR, in care of the University of Illinois.

## FULLY ACCREDITED SCHOOLS

ABINGDON  
HIGH SCHOOL  
HEDDING COL. ACAD.  
ACADEMY OF OUR LADY (Chicago)  
ACADEMY OF OUR LADY (Peoria)  
ACADEMY OF SACRED HEART (Lake Forest)  
ALBION  
ALEDO  
ALEXIS  
ALTAMONT  
ALTON  
ROOSEVELT HIGH SCHOOL  
WESTERN MIL. ACAD.  
ALTONA (Walnut Grove Tp.)  
ALVIN (Ross Tp.)  
ANNA (Anna-Jonesboro Tp.)  
ANTIOCH TP.  
ARCOLA TP.  
ARGENTA TP.  
ARLINGTON HEIGHTS TP.  
ARMINGTON (Hillie Tp.)  
ARMSTRONG TP.  
ARTHUR TP.  
ASHLAND COMMUNITY  
ASHLEY TP.  
ASHTON  
ASSUMPTION TP.  
ASTORIA  
ATLANTA  
ATWOOD TP.  
AUBURN TP.  
AUGUSTA  
AUGUSTANA COLLEGE ACADEMY (Rock Island)

AURORA  
EAST HIGH SCHOOL  
WEST HIGH SCHOOL  
JENNINGS SEMINARY  
AUSTIN HIGH SCHOOL (Chicago)  
AVERYVILLE HIGH SCHOOL (Peoria)  
AVON  
BARRINGTON  
BARRY  
BATAVIA  
BEARDSTOWN  
BEAVERVILLE (Holy Family Academy)  
BELLEVILLE TP.  
BELLFLOWER TP.  
BELVIDERE  
BEMENT TP.  
BENTON TP.  
BETHANY TP.  
BIGGSVILLE TP.  
BISMARCK TP.  
BLANDINSVILLE  
BLOOMINGTON  
HIGH SCHOOL  
ST. JOSEPH'S ACADEMY  
ST. MARY'S HIGH SCHOOL  
BLOOM TP. (Chicago Heights)  
BLUE ISLAND DISTRICT  
BLUE MOUND  
BLUFFS  
BOWEN  
BOWEN HIGH SCHOOL (Chicago)  
BRADFORD TP.  
BRADLEY POLY. INST. (Peoria)

- BRIDGEPORT TP.  
 BRIMFIELD TP.  
 BUDA TP.  
 BUSHNELL  
 BYRON  
 CAIRO  
     HIGH SCHOOL  
     SUMNER HIGH SCHOOL  
 CALUMET HIGH SCHOOL (*Chicago*)  
 CAMBRIDGE  
 CAMP POINT  
 CANTON  
 CARBONDALE  
     SO. ILL. UNIV. H. S.  
 CARLINVILLE  
 CARL SCHURZ HIGH SCHOOL (*Chicago*)  
 CARLYLE  
 CARMI TP.  
 CARROLLTON  
 CARTERVILLE COMMUNITY  
 CARTHAGE  
     HIGH SCHOOL  
     CARTHAGE COL. ACAD.  
 CASEY TP.  
 CATLIN TP.  
 CENTRAL HIGH SCHOOL (*Peoria*)  
 CENTRALIA TP.  
 CHAMPAIGN  
     HIGH SCHOOL  
     ST. MARY'S HIGH SCHOOL  
 CHANDLERVILLE COMMUNITY  
 CHARLESTON  
 CHATSWORTH TP.  
 CHERANSE TP.  
 CHENOA  
 CHESTER  
 CHICAGO  
     AUSTIN  
     BOWEN  
     CALUMET  
     CARL SCHURZ  
     CRANE R. T. (*Tech.*)  
     ENGLEWOOD  
     FENGER  
     HARRISON TECH.  
     HYDE PARK  
     LAKE VIEW  
     LANE TECH.  
     LUCY FLOWER TECH.  
     MCKINLEY  
     MARSHALL  
     MEDILL  
     MORGAN PARK  
     PARKER  
     PHILLIPS  
     SENN  
     TILDEN  
     TULEY  
     WALLER  
 CHICAGO PRIVATE SCHOOLS  
     ACADEMY OF OUR LADY  
     DEPAUL UNIVERSITY ACADEMY  
     FAULKNER SCHOOLS FOR GIRLS  
     P. W. PARKER SCHOOL  
     HARVARD SCHOOL FOR BOYS  
     KENWOOD INSTITUTE  
     LATIN SCHOOL  
     LOVOLA ACADEMY  
     LUTHER INSTITUTE  
     MORGAN PARK MILITARY ACADEMY  
     NORTH PARK COLLEGE ACADEMY  
     OUR LADY OF PROVIDENCE ACADEMY  
     ST. CYRIL ACADEMY  
     ST. FRANCIS XAVIER ACADEMY  
     ST. IGNATIUS ACADEMY  
     ST. LOUIS ACADEMY  
     ST. MARY'S HIGH SCHOOL  
     ST. RITA COLLEGE ACADEMY  
     ST. STANLAUS COLLEGE ACADEMY  
     STARRETT SCHOOL FOR GIRLS  
     UNIVERSITY HIGH SCHOOL  
     UNIVERSITY SCHOOL FOR GIRLS  
     VISITATION HIGH SCHOOL  
     WILSON SCHOOL  
 CHICAGO HEIGHTS (*Bloom Tp.*)  
 CHILLICOTHE TP.  
 CHRISMAN TP.  
 CICERO  
     I. STERLING MORTON TP.  
 CLAYTON  
 CLINTON  
 COAL CITY TP.  
 COLFAX  
 COLLINSVILLE TP.  
 CRANE, R. T. (*Tech.*) H. S. (*Chicago*)  
 CRYSTAL LAKE  
 CUBA  
 DALLAS CITY  
 DANVILLE  
 DECATUR  
 DEERFIELD TOWNSHIP HIGH SCHOOL  
     (*Highland Park*)  
 DEKALB TP.  
 DELAVAN  
 DEPAUL UNIVERSITY ACADEMY (*Chicago*)  
 DEPUÉ  
 DES PLAINES (*Maine Tp.*)  
 DIVERNON TP.  
 DIXON  
 DOWNER'S GROVE  
 DRUMMER TP. (*Frisson City*)  
 DUNDEE  
 DUQUOIN TP.  
 DWIGHT TP.  
 EARLVILLE  
 EAST DUBUQUE  
 EAST HIGH SCHOOL (*Aurora*)  
 EAST LYNN TP.  
 EAST MOLINE TP.  
 EAST ST. LOUIS  
     HIGH SCHOOL  
 LINCOLN HIGH SCHOOL  
 EDINEBURG  
 EDWARDSVILLE  
 EDUCATIONAL INST. H. S. (*Mooseheart*)  
 EFFINGHAM  
 ELDORADO TP.  
 ELGIN  
     HIGH SCHOOL  
     ELGIN JR. COLLEGE AND ACADEMY  
 ELMHURST  
     ACADEMY AND JUNIOR COLLEGE  
     HIGH SCHOOL  
 ELMWOOD TP.  
 EL PASO TP.  
 ENGLEWOOD (*Chicago*)  
 EQUALITY TP.  
 EUREKA TP.  
 EVANSTON TP.  
 FAIRBURY TP.  
 FAIRFIELD  
 FARINA  
 FARMER CITY (*Moore Tp.*)  
 FARMINGTON  
 FENGER HIGH SCHOOL (*Chicago*)  
 FERRY HALL (*Lake Forest*)  
 FISHER COMMUNITY  
 FLORA (*Harter-Stanford Tp.*)  
 FORREST TP.  
 FRANCIS SHIMER SCHOOL (*Mt. Carroll*)  
 FREEPORT  
 FULTON  
 GALENA  
 GALESBURG  
 GALVA  
 GARDNER TP.  
 GENESEO TP.  
 GENEVA  
 GENEVA TP.  
 GEORGETOWN TP.  
 GIBSON CITY (*Drummer Tp.*)  
 GILMAN  
 GIRARD TP.  
 GLEN ELLYN TP.  
 GODFREY (*Monticello Seminary*)  
 GOLCONDA  
 GOLDEN  
 GRAND PRAIRIE SEMINARY (*Onarga*)  
 GRANITE CITY  
 GRANVILLE (*Hopkins Tp.*)  
 GRAYVILLE  
 GREENFIELD

- GREENUP  
 GREEN VALLEY  
 GREENVIEW  
 GREENVILLE  
 GRIGGSVILLE  
 HALL Tp. (*Spring Valley*)  
 HAMILTON  
 HAMPSHIRE  
 HARLEM CONSOLIDATED SCHOOL (*Rockford*)  
 HARRISBURG Tp.  
 HARRISON TECHNICAL HIGH SCHOOL (*Chicago*)  
 HARTER-STANFORD Tp. (*Flora*)  
 HARVARD  
 HARVARD SCHOOL (*Chicago*)  
 HARVEY (*Thornton Tp.*)  
 HAVANA  
 HEBRON  
 HEDDING COLLEGE ACADEMY (*Abingdon*)  
 HENRY Tp.  
 HERRIN Tp.  
 HEYWORTH  
 HIGHLAND  
 HIGHLAND PARK (*Deerfield Tp.*)  
 HILLSBORO  
 HINCKLEY  
 HINDSBORO UNION  
 HINSDALE Tp.  
 HITTLE Tp. (*Armington*)  
 HOLY FAMILY ACADEMY (*Beaverville*)  
 HOMER  
 HOOPESTON  
 HOPKINS Tp. (*Granville*)  
 HUME Tp.  
 HUTSONVILLE Tp.  
 HYDE PARK HIGH SCHOOL (*Chicago*)  
 ILLIOPOLIS  
 INDUSTRY Tp.  
 IRVING  
 JACKSONVILLE  
     HIGH SCHOOL  
     ROUTT COLLEGE ACADEMY  
     WHIPPLE ACADEMY  
 JENNINGS SEMINARY (*Aurora*)  
 JERSEYVILLE Tp.  
 JOHNSTON CITY Tp.  
 JOHN SWANEY SCHOOL (*McNabb*)  
 JOINT Tp. (*Tiskilwa*)  
 JOLIET  
     TOWNSHIP HIGH SCHOOL  
     ST. FRANCIS ACADEMY  
 J. STERLING MORTON Tp. (*Cicero*)  
 KANKAKEE  
 KANSAS  
 KENILWORTH (*New Trier Tp.*)  
 KENWOOD INSTITUTE (*Chicago*)  
 KEWANEE  
 KINMUNDY  
 KIRKWOOD  
 KNOXVILLE  
 LACON UNION  
 LAFAYETTE Tp.  
 LA GRANGE (*Lyons Tp.*)  
 LAHARPE  
 LAKE FOREST  
     ACADEMY OF SACRED HEART  
     LAKE FOREST ACADEMY  
     FERRY HALL  
 LAKE VIEW HIGH SCHOOL (*Chicago*)  
 LANARK  
 LANE TECHNICAL HIGH SCHOOL (*Chicago*)  
 LASALLE (*LaSalle-Peru Tp.*)  
 LATIN SCHOOL (*Chicago*)  
 LAWRENCEVILLE Tp.  
 LEBANON:  
     HIGH SCHOOL  
     MCKENDREE COLLEGE ACADEMY  
 LELAND  
 LENA  
 LEROY Tp.  
 LEWISTOWN  
 LEXINGTON  
 LIBERTYVILLE Tp.  
 LINCOLN  
 LINCOLN HIGH SCHOOL (*East St. Louis*)  
 LISLE (St. PROCOPIUS COL. ACAD.)  
 LITCHFIELD  
 LOCKPORT Tp.  
 LODA Tp.  
 \* LONG VIEW Tp.  
 LOVINGTON Tp.  
 LOYOLA ACADEMY (*Chicago*)  
 LUCY FLOWER TECH. (*Chicago*)  
 LUTHER INSTITUTE (*Chicago*)  
 LYONS Tp. (*La Grange*)  
 MCHENRY  
 MCKENDREE COLLEGE ACADEMY (*Lebanon*)  
 MCKINLEY HIGH SCHOOL (*Chicago*)  
 MCLEAN COMMUNITY  
 MCLEANSBORO  
 MCNABB (*John Swaney Tp.*)  
 MACKINAW Tp.  
 MACOMB  
     HIGH SCHOOL  
     WESTERN ILL. NOR. ACAD.  
 MADISON  
 MAGNOLIA Tp.  
 MAINE Tp. (*Des Plaines*)  
 MANSFIELD  
 MANTENO Tp.  
 MANUAL TRAINING HIGH SCHOOL (*Pearia*)  
 MARENGO  
 MARION Tp.  
 MARISSA Tp.  
 MAROA Tp.  
 MARSEILLES  
 MARSHALL HIGH SCHOOL (*Chicago*)  
 MARSHALL Tp.  
 MARTINSVILLE  
 MASCOUTAH  
 MASON CITY  
 MATTOON  
 MAYWOOD (*Proviso Tp.*)  
 MAZON Tp.  
 MEDILL HIGH SCHOOL (*Chicago*)  
 MENDON Tp.  
 MENDOTA Tp.  
 METAMORA Tp.  
 METROPOLIS  
 MILFORD Tp.  
 MINIER  
 MINONK  
 MOLINE  
 MOMENCE COMMUNITY  
 MONMOUTH  
 MONTICELLO  
 MONTICELLO SEMINARY (*Godfrey*)  
 MOORE Tp. (*Farmer City*)  
 MOOSEHEART (*Educational Institute High School*)  
 MORGAN PARK (*Chicago*)  
 MORGAN PARK MILITARY ACADEMY (*Chicago*)  
 MORRIS  
 MORRISON  
 MOUND CITY  
 MOUNDS Tp.  
 MT. CARMEL  
 MT. CARROLL  
     HIGH SCHOOL  
     FRANCES SHIMER SCHOOL  
 MT. MORRIS  
     HIGH SCHOOL  
     MT. MORRIS COL. ACAD.  
     MT. OLIVE  
 MT. PULASKI Tp.  
 MT. STERLING  
 MT. VERNON Tp.  
 MOWEAQUA  
 MUNCIE (*Oakwood Tp.*)  
 MURPHYSBORO Tp.  
 NAPERVILLE  
     HIGH SCHOOL  
     NORTHWESTERN COL. ACAD.  
 NASHVILLE  
 NEOGA Tp.  
 NEW BERLIN Tp.  
 NEWMAN Tp.  
 NEWTON  
 NEW TRIER Tp. (*Kenilworth*)  
 NIXON Tp. (*Weldon*)  
 NOKOMIS  
 NORMAL  
     HIGH SCHOOL  
     UNIV. HIGH SCHOOL

- NORTH PARK COLLEGE ACADEMY (*Chicago*)  
 NORTHWESTERN COLLEGE ACADEMY (*Naperville*)  
 OAKLAND TP.  
 OAK PARK AND RIVER FOREST TP. (*Oak Park*)  
 OAKWOOD TP. (*Muncie*)  
 OBLONG TP.  
 ODELL  
     HIGH SCHOOL  
     ST. PAUL'S HIGH SCHOOL  
 O'FALLON  
 OLIVET (*College Academy*)  
 OLNEY TP.  
 ONARGA  
     TOWNSHIP HIGH SCHOOL  
     ONARGA MILITARY SCHOOL  
 OREGON  
 ORION  
 OTTAWA TP.  
 OUR LADY OF PROVIDENCE ACADEMY (*Chicago*)  
 PALATINE TP.  
 PALESTINE TP.  
 PANA TP.  
 PARIS  
 PARKER HIGH SCHOOL (*Chicago*)  
 P. W. PARKER SCHOOL (*Chicago*)  
 PAWNEE TP.  
 PAWPAW  
 PAXTON  
 PAYSON  
 PECATONICA  
 PEKIN COMMUNITY  
 PEORIA  
     ACADEMY OF OUR LADY  
     AVERYVILLE HIGH SCHOOL  
     BRADLEY POLYTECHNIC INST.  
     MANUAL TR. HIGH SCHOOL  
     PEORIA HIGH SCHOOL  
     SPALDING INSTITUTE  
 PEOTONE  
 PETERSBURG  
 PHILLIPS HIGH SCHOOL (*Chicago*)  
 PINCKNEYVILLE COMMUNITY  
 PIPER CITY  
 PITTSFIELD  
 PLAINFIELD  
 PLANO  
 PLEASANT HILL  
 PLEASANT PLAINS TP.  
 POLO  
 PONTIAC TP.  
 POTOMAC TP.  
 PRINCETON TP.  
 PRINCEVILLE  
 PROVISO TP. (*Maywood*)  
 QUINCY  
     HIGH SCHOOL  
     QUINCY COLLEGE ACADEMY  
     ST. MARY'S ACADEMY  
 RANTOUL TP.  
 RAYMOND  
 RICHMOND  
 RIDGEFARM TP.  
 RIVERSIDE TP.  
 ROANOKE TP.  
 ROBERTS TP.  
 ROBINSON TP.  
 ROCHELLE COMMUNITY  
 ROCK FALLS TP.  
 ROCKFORD  
     HIGH SCHOOL  
     HARLEM CONSOLIDATED SCHOOL  
     ST. THOMAS HIGH SCHOOL  
 ROCK ISLAND  
     HIGH SCHOOL  
     AUGUSTANA COL. ACAD.  
     ST. JOSEPH'S ACADEMY  
     VILLA DE CHANTAL  
 ROLLO TP.  
 ROODHOUSE  
 ROSEVILLE TP.  
 ROSS TP. (*Alvin*)  
 ROSSVILLE  
 RUTT COLLEGE ACADEMY (*Jacksonville*)  
 RUSHVILLE  
 SACRED HEART ACADEMY (*Springfield*)  
 ST. ALBAN'S SCHOOL (*Sycamore*)  
 ST. ANNE  
 ST. CHARLES  
 ST. CYRIL ACADEMY (*Chicago*)  
 ST. ELMO  
 ST. FRANCIS ACADEMY (*Joliet*)  
 ST. FRANCIS XAVIER ACADEMY (*Chicago*)  
 ST. IGNATIUS ACADEMY (*Chicago*)  
 ST. JOSEPH'S ACADEMY (*Bloomington*)  
 ST. JOSEPH'S ACADEMY (*Joliet*)  
 ST. JOSEPH'S ACADEMY (*Rock Island*)  
 ST. LOUIS ACADEMY (*Chicago*)  
 ST. MARY'S ACADEMY (*Quincy*)  
 ST. MARY'S HIGH SCHOOL (*Bloomington*)  
 ST. MARY'S HIGH SCHOOL (*Chicago*)  
 ST. MARY'S HIGH SCHOOL (*Champaign*)  
 ST. MARY'S HIGH SCHOOL (*Sterling*)  
 ST. PAUL'S HIGH SCHOOL (*Odell*)  
 ST. PROCOPIUS COLLEGE ACADEMY (*Lisle*)  
 ST. RITA COLLEGE ACADEMY  
 ST. STANISLAUS COLLEGE ACADEMY (*Chicago*)  
 ST. THOMAS SCHOOL (*Rockford*)  
 SALEM  
 SANDWICH  
 SAUNEMIN TP.  
 SAVANNA TP.  
 SENN HIGH SCHOOL (*Chicago*)  
 SHEFFIELD  
 SHELBYVILLE  
 SHELTON  
 SIDELL TP.  
 SOUTHERN ILLINOIS NORMAL UNIV. HIGH SCHOOL (*Carbondale*)  
 SPALDING INSTITUTE (*Peoria*)  
 SPARTA TP.  
 SPRINGFIELD  
     HIGH SCHOOL  
     SACRED HEART ACADEMY  
     URSULINE ACADEMY  
 SPRING VALLEY (*Hall Tp.*)  
 STANFORD  
 STARRETT SCHOOL FOR GIRLS (*Chicago*)  
 STAUNTON  
 STERLING  
     TP. HIGH SCHOOL  
     ST. MARY'S HIGH SCHOOL  
 STOCKLAND TP.  
 STOCKTON  
 STONINGTON  
 STREATOR TP.  
 STRONGHURST  
 SULLIVAN TP.  
 SUMNER HIGH SCHOOL (*Chicago*)  
 SYCAMORE  
     HIGH SCHOOL  
     ST. ALBAN'S SCHOOL  
 TALLULA COMMUNITY  
 TAYLORVILLE TP.  
 THERES TP.  
 THORNTON TP. (*Harvey*)  
 TILDEN HIGH SCHOOL (*Chicago*)  
 TISKILWA (*Joint Tp.*)  
 TOLEDO  
 TONICA COMMUNITY  
 TOULON TP.  
 TRENTON  
 TULEY HIGH SCHOOL (*Chicago*)  
 TUSCOLA  
 UNIVERSITY HIGH SCHOOL (*Chicago*)  
 UNIVERSITY HIGH SCHOOL (*Normal*)  
 UNIVERSITY SCHOOL FOR GIRLS (*Chicago*)  
 URBANA  
 URSULINE ACADEMY (*Springfield*)  
 VANDALIA  
 VENICE  
 VERMILION GROVE  
     VERMILION ACADEMY  
 VERMONT  
 VERSAILLES  
 VIENNA TP.  
 VILLA DE CHANTAL (*Rock Island*)  
 VILLA GROVE TP.  
 VIRGINIA  
 VISITATION HIGH SCHOOL (*Chicago*)  
 WALLER HIGH SCHOOL (*Chicago*)  
 WALNUT COMMUNITY  
 WALNUT GROVE TP. (*Altona*)

WARREN	WESTERN MILITARY ACADEMY ( <i>Allon</i> )
WARSAW	WEST FRANKFORT
WASHBURN Tp.	WESTVILLE Tp.
WASHINGTON	WHEATON
WATERLOO	HIGH SCHOOL
WATERMAN	COLLEGE ACADEMY
WATSEKA	WHIPPLE ACADEMY ( <i>Jacksonville</i> )
WAUKEGAN Tp.	WHITE HALL
WAYNER Tp.	WILSON SCHOOL ( <i>Chicago</i> )
WAYNESVILLE Tp.	WINCHESTER
WELDON ( <i>Nixon Tp.</i> )	WOOD RIVER COMMUNITY
WELLINGTON Tp.	WOODSTOCK
WENONA	WYOMING
WEST CHICAGO	YATES CITY Tp.
WEST HIGH SCHOOL ( <i>Aurora</i> )	YORKVILLE
WESTERN ILLINOIS NORMAL ACADEMY ( <i>Macomb</i> )	

## DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each of the foregoing subjects which corresponds to the minimum number of credits assigned is shown by the description of subjects below.

1. **AGRICULTURE.**—Courses in agriculture should be arranged for periods of not less than 36 weeks. Such a course may be accepted for one unit of entrance credit, and two such courses may be accepted for two units, provided the work covered by each course is so closely related in its parts as to constitute one of the generally accepted divisions now recognized in agricultural work. At least one-half of the time should be devoted to laboratory work, and note-books should be presented.

2. **ALGEBRA, One and one-half units.**—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals, quadratic equations and equations reducible to quadratic form, surds, theory of exponents, proportion and variation, logarithms, and the analysis and solution of problems involving these principles.

**ALGEBRA, One unit.**—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals of second order, fractional exponents, variation and proportion, quadratics, including completing the square and simultaneous equations having one quadratic and one linear equation and quadratic systems of simple form. See High School Manual for detailed outline.

3. **ASTRONOMY.**—In addition to a knowledge of the descriptive matter in a good text-book, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the conspicuous naked-eye heavenly bodies.

4. **BOOKKEEPING.**—The unit of work in bookkeeping for college entrance should aim to give a working knowledge of double entry bookkeeping, consisting of the fundamental principles, with particular emphasis on the study of business transactions and their interpretation in the ledger accounts, through the media known as books of original entry. The student should be drilled in the making of simple trading and profit and loss statements and of balance sheets, and should be able to explain the meanings of the items involved in both. The work should be done under the immediate supervision of a teacher, and the student should devote at least ten periods of not less than forty minutes full time in class each week for one academic year.

5. **BOTANY.**—A familiar acquaintance with the general structure of plants and of the principal organs and their functions, derived to a considerable extent from a study of the objects, is required; also a general knowledge of the main groups of plants; and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.

6. **BUSINESS LAW.**—The amount of business law which is accepted is indicated by the ground covered in any of the ordinary text-books on the subject, such as Spencer's Elements of Commercial Law, Burdick's Business Law, and White's Elements of Commercial Law.

7. **CHEMISTRY.**—The instruction must include both text-book and laboratory work. The work should be so arranged that at least one-half of the time shall be given to the laboratory. The course as given in the best high schools in one year will satisfy the requirement of the University for the one unit for admission. The laboratory notes, bearing the teacher's indorsement, must be presented as evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

8. **CIVICS.**—Such an amount of study of the American Government, its history and interpretation, as is indicated by any of the usual high-school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy.

9. **COMMERCIAL ARITHMETIC.**—The amount of work to be covered is represented by that found in any of the ordinary first-class texts on the subject, such as Finney's, Bookman's, Rowe's "New Essentials," Thurston's, and Baker's. Instruction should constantly attempt to emphasize the relation of arithmetic to business customs and procedures.

10. **COMMERCIAL GEOGRAPHY.**—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redway's Commercial Geography, Adam's smaller book on the same subject, the text-books of Brigham, or Robinson, or Trotter's work.

11. **DOMESTIC SCIENCE.**—(a) An equivalent of 180 hours of prepared work with at least two recitation periods a week in foods. (b) An equivalent of 180 hours of prepared work with at least one recitation period a week in clothing. (c) An equivalent of 180 hours of prepared work with at least two recitation periods a week on the home. (Two periods of laboratory work are considered equivalent to one period of prepared work.) Either (a) or (b) or (c) will be accepted for one unit; or one-half unit may be accepted in each of these divisions. Where two years are offered, it is desirable that one semester in the second year be devoted to the home. The work is to be done by trained teachers with individual equipment, as determined by inspection.

12. **DRAWING.**—Freehand or mechanical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

13. **ECONOMICS.**—The principles of economics, with economic history, as given in any good elementary text-book.

14. **ENGLISH COMPOSITION AND RHETORIC.**—On entering the University a student is expected to have a working knowledge of spelling, punctuation, grammar, sentence structure, and paragraphing, and to be able to write with considerable accuracy and effectiveness. He is expected to know the application of grammatical terms as used in a good text-book and to be able to state the essential principles of grammar and to explain the grammatical structure of any sentences encountered in his reading. He is supposed to know the elementary principles of rhetoric, the technical terms used in the subject, and the application of the principles to ordinary composition. The degree of proficiency expected in grammar, rhetoric, and composition can hardly be acquired in less than one period each week for four years. During at least half of this time the student should have written compositions under supervision and have received individual criticism of his written work. A review of grammar and some supervised composition in the fourth preparatory year are strongly advised. The elementary course in composition required of all students in the University is based on the assumption that each student has at least the degree of proficiency suggested in the foregoing paragraphs.

On entering the University, students are tentatively registered in the first course in composition, Rhetoric 1, and are tested in their ability to write. Those who do not show a degree of proficiency suggested in the foregoing paragraph are excluded from Rhetoric 1 and assigned to a preparatory course.

15. **ENGLISH LITERATURE.**—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups from which at least ten units are to be selected, two from each group. Each unit is here set off by semicolons.

I. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; Vergil's Aeneid. The Iliad, the Odyssey, and the Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

II. Shakespeare's Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

III. Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Scott's Ivanhoe or Quentin Durward; Hawthorne's House of Seven Gables; Dicken's David Copperfield or Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

IV. Bunyan's Pilgrim's Progress, Part I; Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humorists; selections from Lincoln, including the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden or selection from Huxley's Lay Sermons; Stevenson's Inland Voyage and Travels with a Donkey.

V. Palgrave's Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's Vision of Sir Launfal; Scott's Lady of the Lake; Byron's Childe Harold, Canto IV, and Prisoner of Chillon; Palgrave's Golden Treasury (First Series) Book IV, with especial attention to Wordsworth, Keats; and Shelley; Poe's Raven, Longfellow's Courtship of Miles Standish, Whittier's Snow Bound; Macaulay's Lays of Ancient Rome and Arnold's Sohrab and Rustum; Tennyson's Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

(b) In addition to the foregoing the candidate will be required to present a careful, systematic study, with supplementary reading, of the history of either English or American literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1920 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named in order to pass it successfully. The list is:

Shakespeare's Macbeth; Milton's Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

The work outlined in (a), (b), and (c) counts for two units.

(d) The three units in English composition, rhetoric, and literature, as described above are required for all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.



16. **FRENCH, *First year's work.***—Elementary grammar, with the more common irregular verbs. Careful training in pronunciation. About 100 pages of easy prose should be read. *Second year's work.*—Advanced grammar, with all the irregular verbs. Elementary composition, and conversation. About 300 pages of modern French should be read. *Third year's work.*—Intermediate composition and conversation. About 500 pages of standard authors should be read, including a few classics. *Fourth year's work.*—Advanced composition, and conversation. Standard modern and classical authors should be read and studied to the extent of 700 pages.

17. **GEOLOGY.**—For one unit, the equivalent of a year's work as conducted in first-class high schools. Such a course includes the thoro study of one of the more abbreviated modern text-books of geology, a generous amount of laboratory work on specimens, maps, models, etc., and wherever possible, several field trips. When available, laboratory notebooks should be presented.

18. **GEOMETRY.**—(a) *Plane Geometry.* Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry.* Applications to the solution of original exercises are emphasized.

19. **GERMAN.**—Pupils should be trained to understand spoken German and to reproduce freely in writing and orally what has been read. A thoro knowledge of grammar is expected. No attempt is made in what follows to give more than a general outline for the work of successive years. *First year's work.*—At the end of the year pupils should be able to read intelligently and with accurate pronunciation simple German prose, to translate it into idiomatic English, and to answer in German easy questions on the passage read. A few short poems may be memorized. Elementary grammar should be mastered up to the subjunctive. Easy prose composition rather than the writing of forms will be the test of the grammatical work in entrance examinations. *Second year's work.*—Only modern writers should be read, preference being given to material which has a distinctly German atmosphere and which lends itself to conversational treatment in the class-room. The recitations should afford constant oral and written drill on the elementary grammar of the previous year. The beginner's book should be completed, but more importance is attached to accuracy and facility in simple modes of expression than to a theoretical knowledge of advanced syntax. *Third year's work.*—Most of the time should still be devoted to modern prose. There should be some work in advanced prose composition—based on German models—and the recitations should continue to afford abundant oral practise. Pupils ought by this time to understand spoken German. *Fourth year's work.*—At the end of this year a pupil should be able to read at sight any prose or verse of moderate difficulty, and be able to express himself orally or in writing with readiness and accuracy. Work in composition should take the form of free reproduction of portions of the texts studied rather than translation of English selections. The reading should be divided about equally between modern and classical authors.

20. **GREEK, *First year's work.***—The exercises in any of the beginning books, and one book of the *Anabasis* or its equivalent. *Second year's work.*—Two additional books of the *Anabasis* and three of Homer, or their equivalents, together with an amount of Greek prose composition equal to one exercise a week for one year. *Third year's work.*—Three additional books of the *Iliad*, three of the *Odyssey*, and Books VI, VII, VIII of Herodotus, or an equivalent from other authors.

21. **HISTORY.**—One, two, or three units may be presented, to be chosen from the following list: Ancient history to 800 A. D., one unit; Medieval and modern history, one unit; English history, one-half or one unit; American history, one-half or one unit.

Examinations for entrance will be given in all these subjects. The examination for each unit is intended to cover one full year of high-school work.

22. **LATIN, First year's work.**—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories. **Second year's work.**—Four books of Caesar's Gallic War, or its equivalent in Latin of equal difficulty; the ability to write simple Latin based on the text. **Third year's work.**—Six orations of Cicero; the ability to write simple Latin based on the text; the simpler historical references and the fundamental facts of Latin syntax. **Fourth year's work.**—Six books of Vergil's Aeneid, with history and mythology; the scansion of hexameter verse.

23. **MANUAL TRAINING.**—The requirement for one unit is the equivalent of 361 forty-minute periods in manual training following the syllabus prepared by the manual-training section of the High School Conference.

24. **MUSIC.**—Credit in harmony, history of music, and musical appreciation, one unit or two units, is acceptable by certificate, from schools accredited therefor, for admission to all departments of the University. To be acceptable, courses in these branches must conform to the schedule adopted by the University, as follows:

Courses in Harmony, History of Music, and Musical Appreciation will be accredited on the same basis as other High School courses, namely: Five hours of recitation per week and five hours of preparation per week for 36 weeks will receive one unit of credits. Five hours of recitation per week without preparation will receive one-half unit. Written work will be required in all courses, but pre-eminently in Harmony.

(a) **HARMONY, First year's work.**—Elements of musical notation; Construction of major and minor scales; keys; signatures; intervals; general and specific; key relationships; consonances and dissonances; triads, primary and secondary; inversions of triads; chord progressions; simple melodies harmonized with tonic dominant and sub-dominant harmonies.

**HARMONY, Second year's work.**—Review of triads; seventh chords, primary and secondary; harmonization of simple melodies with triads and seventh chords; harmonic analysis: original work.

(b). **History of Music:** A text-book course, with recitations and written work, touching the beginning of music, and including a fairly comprehensive study of the development of music since A. D. 1600 and acquaintance with the lives and productions of the greatest composers and performers. One year.

(c). Music Appreciation based upon the standard choruses and instrumental selections from the works of the great composers of each epoch, with instructions in elementary theory, sight-singing and ear-training. One year.

(d). A composite course may be offered including harmony, history of music, and Musical Appreciation, any two of these subjects, and subject to the same regulations, with the added specification that in such a course at least one recitation per week in Harmony, with written preparation, shall be included. Two years.

For admission to the School of Music only, two units in "practical" music, i. e., piano, voice, or violin, are required. Students obtain credits in the "practical" music by examination. In the examination for two units in *piano*, students are required to play the following or the equivalent: Simple scales and arpeggios at fairly rapid tempo; scales in double octaves at a moderate speed; Bach, Two-Part Invention; Czerny, Op. 229; an easy sonata of Haydn, Mozart, or Beethoven. In the examination for two units in *voice*, students are required to sing the following or the equivalent: Simple scales and arpeggios; studies selected from Concone, Sieber, Panofka, and Panseron; songs selected from Schubert, Schumann, and modern composers. In the examination for two units in *violin*, students are required to play the following or the equivalent: Gruenberg—Foundation Exercises, numbers 81 to 117; Kayser, Opus 20, Book 2; Wohlfarth—Opus 74, Book 2; Allen, Polonaise, Opus 7, and Seitz, Concertino, No. 1, D major.

25. **PHYSICS.**—One year's high-school work covering the elements of physical science as presented in the best of the current high school text-books of physics. Laboratory

practise in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.

26. **PHYSICAL GEOGRAPHY.**—One year's work, fully covering such a text-book as those of R. S. Tarr and W. M. Davis. It is assumed that the recitations have been accompanied by several hours of laboratory work per week on various types of maps, models, etc., as well as by field excursions. Laboratory note-books should be presented for inspection.

27. **PHYSIOLOGY.**—For one-half unit: The anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent shown in Martin's Human Body (Briefer Course). For more than one-half unit, the course must include practical laboratory work.

28. **SHORTHAND AND TYPEWRITING.**—These subjects must be taken together; no credit is given for either one by itself. For *one unit*, the time requirement is two periods daily of not less than forty minutes each for one year of thirty-six weeks, and the standard of attainment is 75 words a minute in taking dictation and 25 words a minute in the transcription on the machine of such dictation. For *two units*, the time requirement is two periods daily of not less than forty minutes each for two years of thirty-six weeks, and the standard of attainment is 100 words a minute in taking dictation and 35 words a minute in the transcription on the machine of such dictation. Accuracy in spelling, punctuation, capitalization, and paragraphing should be emphasized; and attention should be given to the care of the machine, methods of copying, manifold, etc.

29. **SPANISH, First year's work.**—Elementary grammar, including thoro drill in the irregular verbs; careful training in pronunciation, and translation of simple Spanish when spoken; reading of about 100 pages of easy prose; simple composition and dictation; *Second year's work.*—In addition to the foregoing, about 300 pages of modern prose; elementary syntax; dictation, composition, and translation of spoken Spanish continued.

30. **TRIGONOMETRY.**—The work should cover the field of plane trigonometry, as given in standard textbooks, including the solution of right and oblique triangles. Special emphasis is placed upon the solution of practical problems, trigonometric identities, and trigonometric equations.

31. **ZOOLOGY.**—The instruction must include laboratory work equivalent to four periods a week for a half-year, besides the time required for text-book and recitation work. Note-books and drawings must be presented to show the character of the work done and the types of animals studied. The drawings are to be made from the objects themselves, not copied from illustrations, and the notes are to be a record of the student's own observations of the animals examined. The amount of equipment and the character of the surroundings must determine the nature of the work done and the kind of animals studied; but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom, with their most important distinguishing characteristics, and with illustrative examples selected, when practicable, from familiar forms, ought also to be known.

# GRADUATION—FIRST DEGREE

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## THE BACHELOR'S DEGREE

A bachelor's degree is conferred on any student who satisfactorily completes the curriculum described under one of the various colleges and schools, doing either the first three years, or the last year, of his work in residence at the University.

### Residence Requirement

If the student is in residence at the University for one year only, that year's work must be taken in the college from which the degree is expected. No person will be recommended for a degree by the faculty of any college in the University unless he has been a regularly registered student in that college for at least one year, during which time he shall complete not less than thirty semester hours in course.

### Number of Hours Required

A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen curriculum, and must conform to the directions given in connection with that curriculum in regard to electives. In the College of Liberal Arts and Sciences, the College of Commerce and Business Administration, and the College of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of Law, in the Library School, and in the School of Music, the candidate must complete the curriculum as laid down.

In order to receive his bachelor's degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work, prescribed or elective, required for such degree.

### Military Science and Physical Education

The number of hours required includes, for men, five in military drill and tactics and two in physical education; and for women, three in physical education. Men excused from the military requirements, and women who do not take the course in physical education, must elect instead an equivalent number of hours in other subjects.

### Thesis

In all cases in which a thesis is required,<sup>1</sup> the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the curriculum for which a degree is expected. The thesis must be presented on regulation paper; it is deposited in the library of the University.

### Degrees Conferred Four Times a Year

The annual commencement exercises are held in June, but degrees may be conferred at other times as follows:

Students who complete their work at the end of the first semester may, on application, be recommended for their degree at the February meeting of the Senate.

Students who are to complete their work for the bachelor's or the master's degree in the Summer Session, and who register in advance of the June meeting of the Senate for

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<sup>1</sup>See requirements for graduation in various colleges.

specified courses in that session which complete the requirements in their cases, may be recommended at the June meeting, subject to the successful completion of the specified courses in the Summer Session.

Students who complete their work at the end of the Summer Session may, on application, be recommended at the October meeting of the Senate.

All graduates are ranked as of the class of the calendar year in which their degrees were conferred, i. e., students who receive their diplomas in August or October, with the class of the preceding June, and those who receive their diplomas in February, with the class of the following June.

### Second Bachelor's Degree

A student who has already received one bachelor's degree may receive a second bachelor's degree, provided that all specified requirements for both degrees be fully met, and provided also that the curriculum offered for the second degree include at least 30 semester hours not counted for the first degree.

### LIST OF FIRST DEGREES

1. The degree of BACHELOR OF ARTS is conferred on those who complete a curriculum in literature and arts, or certain curriculums in science, in the College of Liberal Arts and Sciences.

2. The degree of BACHELOR OF SCIENCE is conferred on those who complete a curriculum in the College of Engineering, in the College of Commerce and Business Administration, in the College of Agriculture, or in the College of Education. This degree is conferred on a graduate of the College of Liberal Arts and Sciences who completes a curriculum in chemistry, or student in the College of Education who completes the requirements for graduation as stated on page 185, and may be conferred on graduates from other curriculums in this College on recommendation of the faculty. It may also be conferred on students who offer two years of acceptable college work for admission to the College of Medicine and complete the two years of scientific work in medical subjects and subjects preparatory to medicine which are offered in the Junior College; on the completion of the two additional years in clinical work offered in the Senior College, such students may receive the degree of Doctor of Medicine.

3. The degree of BACHELOR OF LAWS is conferred on those who complete the curriculum in the College of Law.

4. The degree of DOCTOR OF LAW is conferred on those who complete the curriculum in the College of Law, satisfying certain special requirements additional to those for the degree of Bachelor of Laws.

5. The degree of BACHELOR OF LIBRARY SCIENCE is conferred on those who complete the curriculum in the Library School.

6. The degree of BACHELOR OF MUSIC is conferred on those who complete one of the curriculums in the School of Music.

7. The degree of DOCTOR OF MEDICINE is conferred on those who complete the curriculum in the College of Medicine.

8. The degree of DOCTOR OF DENTAL SURGERY is conferred on those who complete the curriculum in the College of Dentistry.

9, 10. The degree of GRADUATE IN PHARMACY, or of PHARMACEUTICAL CHEMIST, is conferred on those who complete the shorter and the longer curriculums, respectively, in the School of Pharmacy.

# HONORS AND COMPETITIONS

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## UNIVERSITY HONORS

The University gives public official recognition to such students as attain a high grade of scholarship by the following system of honors.

### Preliminary Honors

*Preliminary Honors* are assigned at the completion of the sophomore year on the basis of the average of the grades received during the freshman and sophomore years in all studies except military and physical training. The number of persons to whom honors are awarded may not exceed one-tenth of the membership of the sophomore class. A failure in any subject disqualifies a student from receiving these honors. Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduation.

### Final and Special Honors

*(Candidates for the Degrees of B.S., B.Mus., LL.B., and B.L.S.)*

*Final Honors* are assigned on graduation on the basis of the average grades received during the junior and senior years. The number of persons to whom final honors are awarded may not exceed one-tenth of the membership of the senior class. A failure in any subject during the junior and senior years disqualifies a student from receiving these honors. Final honors are designed especially to favor students whose preparatory education has been so imperfect as to prevent them from receiving preliminary honors.

*Special Honors* are awarded at the close of the senior year. No student may receive such honors who has not completed, before the beginning of his senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject, or group of allied subjects, by the end of his senior year, must do such other work as the professor in charge may assign, and must prepare an acceptable thesis. No student is eligible for special honors who, during the senior year, has received a grade of less than C in any subject. Special honors are planned for especially brilliant students who prefer to concentrate their efforts on a special course. A student may be a recipient of both final and special honors.

### The Degree of Bachelor of Arts with Honors

The faculty of the College of Liberal Arts and Sciences has been authorized to recommend candidates for the degree of Bachelor of Arts *with honors* in a particular subject. Candidates for the degree with honors will be recommended by the faculty under the following conditions:

(1) The student must have made A in at least three-fourths, and B in the remainder of the work offered for his major.

(2) He must have completed the work offered for his minor with an average of not less than B.

(3) Each candidate is required to present a thesis in his major subject.

(4) Especially poor or careless work in any other subject may, by vote of the faculty, cause the honor degree to be withheld.

The purpose of these honors is not to encourage premature specialization but to give special recognition to students who have pursued with success correlated courses of study,

and to emphasize the importance, for scholarship in any subject, of thoro training in other related subjects. Candidates should announce their intention as early as possible in their college course and consult freely with the head of the department concerned in regard to the selection of their studies.

Candidates for the degree of Bachelor of Science in the College of Liberal Arts and Sciences are eligible for final and special honors under the regulations stated on page 90.

### **Freshman Honors**

*(College of Liberal Arts and Sciences)*

At the close of each year a list is prepared of those members of the freshman class in the College of Liberal Arts and Sciences who have made an especially good record in scholarship. The names of such students are announced at an assembly of the College; notice is also sent in each case to the parent or guardian, and to the principal of the high school of which the student is a graduate.

### **List of Honors**

The names of the students who received honors under the foregoing regulations during the academic year 1919-20 are published in part VII of this Register.

## **DEBATING AND ORATORY**

The University engages yearly in four intercollegiate debates, the teams for which chosen in a series of competitive preliminaries to which all students are eligible. Through the generosity of Hon. William B. McKinley a gold watch-fob is presented to every speaker who represents the University, either in debate or in oratory.

THE *I. M. I.* DEBATING LEAGUE consists of the Universities of Illinois, Minnesota, and Iowa. It holds a debate at each university on the first Friday in December.

THE MIDWEST DEBATING LEAGUE consists of the Universities of Illinois, Michigan, and Wisconsin. It holds a debate at each university on the third Friday in March.

THE NORTHERN ORATORICAL LEAGUE, consisting of Northwestern University, Oberlin College, and the state Universities of Illinois, Iowa, Michigan, Minnesota, and Wisconsin, holds an annual contest on the first Friday evening in May. The contests for 1920 will be held on May 7, at Chicago, Illinois. The winner receives the Lowden testimonial of one hundred dollars, and the speaker awarded second place, fifty dollars. The Illinois representative is selected in competitive contests open to all undergraduates.

THE INTERCOLLEGIATE PEACE ASSOCIATION holds annual state and interstate oratorical contests to which representatives of this University are eligible. Orations must be on some phase of the peace question. Cash prizes are offered in both contests.

A FRESHMAN-SOPHOMORE DEBATE and an INTER-SOCIETY DECLAMATION CONTEST are held yearly.

### **The Interscholastic Oratorical Prize**

A medal of the value of twenty dollars, and two medals of the value of ten dollars each, are offered annually by the University to the high schools of the State for the best orations delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet—in 1920, on May 21-22.

## **PRIZES IN PUBLIC SPEAKING**

The division of Public Speaking gives annually silver cups as first and second prizes to the two graduating seniors who, by representing the University in intercollegiate contests in oratory and debate, have rendered the University the greatest service on the

platform. The awards shall be based on participation in a minimum number of debates and on a scale of points won in contests.

### **THE THACHER HOWLAND GUILD MEMORIAL PRIZE**

Friends and admirers of Thacher Howland Guild, instructor and associate in English, 1904-14, have endowed the Thacher Howland Guild Memorial Prize, an annual prize of \$25, to be given to the undergraduate student submitting the poem or one-act play which in the opinion of a committee appointed by the department of English shows the greatest originality and literary merit; provided that the award may be withheld in any year if no production deemed worthy of a prize is submitted. The name of the winner of this prize is printed in the commencement program.

### **ST. PATRICK'S DAY PRIZE**

Division One of the Ancient Order of Hibernians offered in the spring of 1916 and again in 1917 a prize of \$50 for the best essay by an undergraduate or a graduate student of the University on a subject connected with Ancient Irish literature, history, or archeology. In the fall of 1917 the State Board of Illinois of the Ancient Order of Hibernians guaranteed that the prize would be offered annually. The essay, not less than 5,000 words in length, must be submitted one month before Commencement Day.

### **THE BRYAN PRIZE**

In 1898 Mr. William Jennings Bryan gave to the University the sum of two hundred fifty dollars, from the interest on which a prize of twenty-five dollars is offered biennially for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand nor more than six thousand words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901. It is offered next in 1921.

### **ARCHITECTURE**

#### **The Francis J. Plym Fellowship in Architecture**

By the generosity of Mr. Francis J. Plym, of Niles, Michigan, a graduate of the University of Illinois of the class of 1897, the Trustees have been enabled to establish a fellowship for the advanced study of architecture. The stipend attached to this fellowship is \$1,000, awarded annually by competition in Architectural Design. The holder of the fellowship is required to spend a year in study and travel abroad. For further information address the Department of Architecture.

#### **The American Institute of Architects Medal**

The American Institute of Architects offers annually a medal for award to the senior in the department of architecture whose development during the four years' course is the most consistent and best. In making the award the scholarship in all work is considered.

#### **The Scarab Medal in Architecture**

The Scarab Society of the department of architecture offers annually a bronze medal to be awarded during the second semester for the best solution of a problem in architectural design, the competition being limited to students in architecture.



**THE PRIZE IN ARCHITECTURE** of the American Academy in Rome is open for competition among qualified undergraduates and graduates of certain American architectural schools, including that of the University of Illinois. This prize grants three years of residence and travel abroad for the study of classic and renaissance architecture.

### **MILITARY CONTESTS AND PRIZES**

#### **The University Bronze Medals**

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the infantry companies and artillery and signal detachments which shall score the greatest number of points at the annual competitive drill, held at some time between May 15 and May 31. The members of the company rifle team making the highest score at gallery target practise are also awarded medals. The medals so awarded become the permanent property of the recipients. A complete roster of the winning organizations is published in the Annual Register of the University for the following year.

#### **The University Gold Medal**

The Board of Trustees provides annually a gold medal which is to be awarded at the annual competitive drill held near the close of the year, to the best drilled student, whose property the medal becomes. Each student must have matriculated in the University and must have completed one semester's work in Military 1 with a grade of not less than B, and three semesters' work in Military 2 with a grade of not less than A; and he must have an average standing of not less than C in all of his other studies for the preceding semester, which standing shall be determined by the Registrar. The name of the winner is published in the Annual Register of the University for the following year. The award is made for excellence in the same details as in the Hazleton contest.

#### **The Hazleton Prize Medal**

Captain W. C. Hazleton provided in 1890 a medal, which is awarded, at a competitive drill held at some time between May 15 and May 31, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must have had less than five unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in:

1. Erectness of carriage, military appearance, and neatness.
2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The name of the successful competitor is published in the Annual Register of the University for the following year. He is given a certificate setting forth the fact, and may wear the medal until the fifteenth day of the May following, when he must return it for the next competition.

### **CHI OMEGA PRIZE**

The University of Illinois Chapter of Chi Omega offers annually a prize of twenty-five dollars for the best essay written by a woman in connection with any course in sociology.

### **GENERAL UNIVERSITY LECTURES**

#### *Convocations*

Feb. 9. MEMORIAL SERVICE TO THEODORE ROOSEVELT.

May 30. MEMORIAL DAY EXERCISES.

Nov. 2. MEMORIAL SERVICE TO SOLDIERS.

Nov. 11. ARMISTICE DAY. Honorable James Hamilton Lewis: "Americanism and Loyalty".

*General University Lectures*

- Mar. 12. Mr. C. C. LYON: "Berlin with the signing of the Armistice".  
 Apr. 12. Dr. HARRY W. LAIDLER: "The Challenge of Guild Socialism".  
 Professor RAYMOND M. ALDEN: "Types of Tragedy".  
 May 1. Dr. FRANCIS HOBART HERRICK: "Audobon, America's Pioneer Woodsman, Ornithologist, and Animal Painter". (lantern slides).  
 May 16. Major-General LEONARD H. WOOD.  
 Dec. 5. Col. GEORGE FABYAN: "The Baconian Cipher".

*Star Course*

- Jan. 10. MABEL GARRISON, soprano.  
 Feb. 21. EFREM ZIMBALIST, violinist.  
 May 14. SOPHIE BRASLAU, contralto  
 Oct. 10. PAUL ALTHOUSE, tenor.  
 Nov. 14. MAUD POWELL, violinist

*The University Concert Course*

- Jan. 24. ANTONIO SALA, cellist.  
 May 7. UNIVERSITY ORCHESTRA AND UNIVERSITY WOMEN'S GLEE CLUB.  
 Mar. 18. UNIVERSITY CHORAL AND ORCHESTRAL SOCIETY: Rossini's "Stabat Mater".

*Symphony Concerts*

- Oct. 29. CINCINNATI SYMPHONY ORCHESTRA.

*EXHIBITIONS DURING 1919*

- Jan. 27-31. ARCHITECTURAL EXHIBITION—Water color studies of certain proposed buildings to be built in Chicago, by Charles L. Morgan.  
 FEB. 3. ART AND DESIGN—Exhibition of Real Lace.  
 Mar. 3-5. ARCHITECTURAL EXHIBITION—Water color drawings of the proposed development of the College of Engineering as made by the Staff of the Department.  
 Mar. 17-23. ARCHITECTURAL EXHIBITION—Water color studies made by Hubert Smith of Urbana, Illinois.  
 Apr. 14-18. ARCHITECTURAL EXHIBITION—Student water color work.  
 May 5-8. ARCHITECTURAL EXHIBITION—Final drawings for the Scarab Medal.  
 May 15-20. ARCHITECTURAL EXHIBITION—Winning drawings for the Plym Prize for Architectural Engineers.  
 May 23. ARCHITECTURAL EXHIBITION—Memorial tablet made by the staff of the Department for use at the Memorial Day Convocation.  
 May 26-30. ARCHITECTURAL EXHIBITION—Student work of the year.  
 Oct. 6-10. ARCHITECTURAL EXHIBITION—Posters made by the students of the Department.  
 Nov. 10-14. ARCHITECTURAL EXHIBITION—Design work of the Architectural Engineers.  
 Dec. 1-5. ARCHITECTURAL EXHIBITION—Studies in oil made by students of the Department.

*Entertainments*

- Feb. 21. MILITARY BALL.  
 Feb. 28. "THE FOLLIES."  
 Mar. 3. PIANO RECITAL by SIDNEY SILBER of the University of Nebraska.  
 Apr. 1. POST EXAM JUBILEE.  
 Apr. 4-5. THE PLAYERS CLUB: "The Truth".  
 Mar. 7. UNIVERSITY BAND CONCERT.

- Apr. 19. DEVEREAUX PLAYERS.  
 May 15. MAY POLE DANCE.  
 GIRLS' STUNT SHOW.  
 May 16. REVIEW OF THE UNIVERSITY BRIGADE by Major-General LEONARD H. WOOD and Governor FRANK O. LOWDEN.  
 MASK AND BAUBLE: "His Majesty Bunker Bean."  
 May 23. "LE VOYAGE DE M. PERRICHON"—For the benefit of fatherless French children.  
 May 25. ORGAN RECITAL by JOSEPH BONNET.  
 June 20. CONCERT BY THE UNIVERSITY BAND AND LAWN FESTIVAL.  
 Oct. 31. HOMECOMING CARNIVAL.  
 Nov. 22. FORBES-ROBERTSON—In readings from *Macbeth*, *Othello*, and *Lear*.  
 Dec. 11. DEBATE: Minnesota vs. Illinois.

### University Christian Associations

- Jan. 26. ALL UNIVERSITY SERVICE. Dr. GRAHAM TAYLOR: "The New Social Order Arising."  
 Feb. 23. ALL UNIVERSITY SERVICE. Professor R. H. GARNER: "League of Nations".  
 Mar. 23. ALL UNIVERSITY SERVICE. Mr. J. D. OGILVIE: "The Nations of the Pacific".  
 Apr. 6. ALL UNIVERSITY SERVICE. Mr. RALPH DENNIS: "Russia and Bolshevism".  
 May 11. ALL UNIVERSITY SERVICE. Lieut. WAYLAND C. BROOKS: "In the Thick of the Fight".  
 Nov. 9. ALL UNIVERSITY SERVICE. Rev. C. W. GILKEY: "A Faith for These Times".  
 Nov. 27. ALL UNIVERSITY SERVICE. Professor S. P. SHERMAN: "Where There is Peace".  
 Dec. 7. ALL UNIVERSITY SERVICE. Dr. LYNN HAROLD HOUGH: "The Man of the Hour."

### THE COLLEGE OF LIBERAL ARTS AND SCIENCES

- Mar. 20. Mr. ELMER H. ADAMS of the Law firm of Adams, Crews, Childs, and Bobb: "The Readjustment of American Business".  
 Apr. 3. Dr. W. A. EVANS, Health Editor of the *Chicago Tribune*: "Public Health Problems in a Period of Readjustment."  
 Apr. 17. Mr. GEORGE W. PERKINS: "The Problems of Readjustment as they Affect Labor."  
 Apr. 24. Mr. FRANCIS G. BLAIR: "The Problems of Public Education in a Period of Readjustment."  
 May 8. Mr. VICTOR MURDOCK, of the Federal Trade Commission: "Public Control as a Factor in Reconstruction."

### Chemistry

- Apr. 15. Dr. E. C. HOLTON, Chief Chemist of Sherwin-Williams Paint Company: "Development of the Paint Industry."  
 May 30. Dr. EDWARD KREMERS, University of Wisconsin: "Quinhydrone Hypothesis of Plant Pigmentation."  
 Oct. 20-25. Dr. IRVING LANGMUIR, General Electric Company of Schenectady, N. Y.: "The Structure of Atoms and its Bearing on Chemical Valence." Six Lectures. Also, "The Structure of the Surfaces of Solids and Liquids."  
 Nov. 18. Dr. C. W. BALKE, Fansteel Company of North Chicago: "Metallography and Manufacture of Tungsten and Molybdenum."

*Mathematics*

Nov. 14-18. Professor VITO VOLTERRA, Italy: "Integral Equations and Integro-Differential Equations."

*Philosophy*

Apr. 30. Professor KELLER, University of Zurich: "Psychoanalysis and Religion."

*Zoology*

May 1. Dr. FRANCIS H. HERRICK: "The Life and Instincts of Birds."

Dec. 2. Professor WILLIAM E. RITTER. "The Research Problems and Facilities of the Scripps Institution."

*Short Courses and Conventions*

Feb. 17-21. CORN GROWERS' AND STOCKMEN'S CONVENTION AND WAR CONFERENCE.

FEB. 17-21. SHORT COURSE IN HIGHWAY ENGINEERING

## COLLEGE OF ENGINEERING

*College Assemblies*

Jan. 14. Mr. CALVIN W. RICE, Secretary of the American Society of Mechanical Engineers, New York, New York: "The Functions of the Engineering Society."

Feb. 27. Mr. JAMES P. MUNROE, Vice-Chairman of the Federal Board for Vocational Education, Washington, D. C.: "The Industrial Educational Program of the United States."

Mar. 13. Mr. S. O. DUNN, Editor of the *Railway Age*, Chicago, Illinois: "American Railways during the Reconstruction Period."

Mar. 18. Professor C. F. HARDING, Purdue University, Lafayette, Indiana: "Fair Rates for Electrical Energy."

Apr. 10. Mr. H. C. ESTEP, Editorial Director of the Penton Publishing Company, Cleveland, Ohio: "Mechanical Engineering and Manufacturing Problems in the Reconstruction Period."

Oct. 22. Professor DEXTER S. KIMBALL, Cornell University, Ithaca, New York: "The Advantages Derived from Membership in the Student Branch of the American Society of Mechanical Engineers."

*Addresses Before the Freshman Class*

May 21. Major R. E. McQUILLAN, Signal Corps, U. S. Army, Assistant Military Inspector, Central Department, Chicago, Illinois: "The Signal Corps."

Nov. 5. Dr. IRA N. HOLLIS, President of the Worcester Polytechnic Institute, Worcester, Massachusetts: "The Day's Work."

## THE COLLEGE OF AGRICULTURE

## AGRICULTURAL EXTENSION

Oct. 13. Mr. E. S. BOYER, Lecturer, The Wesley Foundation, Urbana: "Fighting for Ideals."

Oct. 27. Dr. A. C. TRUE, States Relations Service, Washington, D. C.: "Organizations of the United States Department of Agriculture."

Dec. 8. Professor BENJAMIN H. HUNNICUTT, Director Ladras Agricultural College, Ladras, Minas, Brazil: "Agricultural Possibilities in Brazil."

Feb. 1-7. CONFERENCE OF CITY AND COUNTY HOME ADVISERS.

## SPECIAL LECTURES BEFORE CONFERENCE OF HOME ADVISERS

- Feb. 1. Mrs. FREDERICK A. DOW, Chicago: "Reconstruction."  
 Feb. 4. Miss WINIFRED GIBBS, Office of Extension North and West: "Fitting Thrift Projects to City Conditions."  
 Feb. 6. Miss SARAH PETTIT, Office of Extension North and West: "Office Equipment and Organization."  
 Feb. 6. Mrs. H. M. DUNLAP, President, Champaign County Home Bureau: "Problems for the Executive Board of the Home Bureau."  
 Feb. 6. Mr. B. F. HARRIS, President, First National Bank, Champaign: "Cooperation of the Local Bank in the Thrift Campaign."  
 Feb. 6. Mrs. H. A. McKEENE, Secretary, Woman's Auxiliary of the Farmers' Institute: "Cooperation of the Woman's Auxiliary of the Farmers' Institute with Home Bureaus."

SPECIAL LECTURES BEFORE EXTENSION DIVISION  
OF THE SUMMER SESSION

- June 25. Professor ISABEL BEVIER: "Rural Life as It Is."  
 June 25. Professor W. F. HANDSCHIN: "Relation of Rural Wealth and Income to Improvement."  
 June 26. Professor W. F. HANDSCHIN: "Survey of Economic Resources of the Community."  
 June 27. Professor W. F. HANDSCHIN: "Relation of Agricultural Agencies to Rural Problems (Fundamental Aim)."  
 June 27. Professor W. F. HANDSCHIN: "Organization of Extension Movement (Legal basis, Financial Policy, Relation to Other Agencies)."  
 June 30. Miss JULIET LITA BANE: "Existing Organizations, Their Nature and Scope."  
 June 30. Miss JULIET LITA BANE: "Social and Recreational Needs of Rural Communities."  
 July 1. Professor W. F. HANDSCHIN: "Pedagogy of Extension Teaching."  
 July 2. Miss E. FERNE HARRIS: "The Home Bureau Budget."  
 July 2. Miss JULIET LITA BANE: "Educational and Religious Needs of the Rural Community."  
 July 3. Miss JULIET LITA BANE: "County Organization."  
 July 3. Dr. J. H. BEARD: "Health Needs of Rural Communities."  
 July 7. Miss NAOMI O. NEWBURN: "Criticism of Demonstrations."  
 July 8. Miss NAOMI O. NEWBURN: "Methods in Extension Teaching."  
 July 8. Miss JULIET LITA BANE: "Methods in Extension Teaching."  
 July 9. Miss JULIET LITA BANE: "Reports of Problems."  
 July 9. Miss MAMIE BUNCH: "Qualifications for Extension Teaching."  
 July 10. Mr. J. H. GREENE: "Junior Farm and Home Bureau Work."  
 July 11. Miss MAMIE BUNCH: "Staff Organization and Service of Specialists."  
 July 14. Miss JULIET LITA BANE: "Bibliographies and Libraries."  
 July 15. Miss MABEL WILKERSON: "Developing Clothing Projects."  
 July 16. Miss KATHERINE K. MESSENGER: "Developing Equipment Projects."  
 July 17. Miss ANNA C. GLOVER: "Publicity Methods."  
 July 17. Miss MAMIE BUNCH: "Professional Ethics."  
 July 21. Miss MAMIE BUNCH: "The Home Adviser and the City Problems."  
 July 21. Miss ROSE D. BRIEM: "Office Organization and Management."  
 July 22. Miss FLORENCE HARRISON: "Smith-Hughes Vocational Work in Home Economics."  
 July 22. Miss JULIET LITA BANE: "Reports and Discussion."

- July 24. Miss MAMIE BUNCH; "Reports: Types to be Collected by the Adviser from Her Field."  
 July 25. Miss LEONA HOPE: "Teaching Interior Decoration by Demonstration and Publicity."  
 July 25. Miss MAMIE BUNCH: "Reports to the Central Office."  
 July 28. Mrs. FLORENCE McCONNELL: "Public Speaking Suggestions."  
 July 29. Mr. C. A. Atwood: "Membership Campaigns."  
 July 30. Miss NAOMI O. NEWBURN: "Planning a Demonstration." Illustrated Lecture.  
 July 30. Miss NAOMI O. NEWBURN: Type Demonstration: "Use of Milk in the Diet."  
 July 30. Miss NAOMI O. NEWBURN: "Relation of Demonstrations to Home Bureau Projects."

### HORTICULTURE

#### *Exhibition:*

- Nov. 9-12. CHRYSANTHEMUM SHOW.

### THE LIBRARY SCHOOL

#### LECTURES AND EXERCISES

- Feb. 18. Miss BERTHA T. RANDALL, Branch Librarian, Carnegie Public Library, Pittsburgh, Pa.: "The Work of the East Liberty Branch of the Carnegie Library of Pittsburgh."  
 May 28-29. Mr. GEORGE B. UTLEY, Secretary and Executive Officer, American Library Association: "The History and Organization of the American Library Association" and "The Work of the Public Library in the Reconstruction Period."  
 June 12. Miss OLA M. WYETH, Librarian in charge of reconstruction hospital library service, Washington, D. C.: "Reconstruction Hospital Library Work."  
 Nov. 21. Mr. CAMILO OSIAS, Commissioner of Education, Philippine Islands: "Education and Social Conditions in the Philippines."  
 Dec. 5-6. Miss LOUISE B. KRAUSE, Librarian of the H. M. Byllesby Co., Chicago, Ill.: "The Business Library—What it is and what it does."  
 Dec. 10-11. Miss MARY E. AHERN, Editor, Public Libraries, Chicago, Ill.: "The Story of our Craft."  
 Dec. 16. Miss KATE D. FERGUSON, Camp Library worker, A. E. F., France: "Camp Library Experiences."

### THE SUMMER SESSION

- July 7-11. Mr. WILLIAM WEBSTER ELLSWORTH: "Rise and Fall of Prussianism." "Forty Years of Publishing." "Theodore Roosevelt." "All the Monthly Magazines." "Lincoln."  
 July 8. Mr. FRANKLIN G. DUNHAM: "Teaching of Music Appreciation."  
 July 11. ALL UNIVERSITY DANCING PARTY FOR FACULTY AND STUDENTS.  
 July 16. Professor CHARLES H. JUDD, Director of the School of Education, University of Chicago: Lecture.  
 July 18. DEVEREAUX PLAYERS: "She Stoops to Conquer."  
 July 19. DEVEREAUX PLAYERS: "The Taming of the Shrew."  
 July 28-30. Rabbi LOUIS MANN: "Juddism and Americanism." "The Jewish Attitude Toward the Religious Doubter." "The Jewish Conception of Charity."

# ASSOCIATIONS, SOCIETIES, AND CLUBS

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## GENERAL ORGANIZATIONS

### The Alumni Association

The Alumni Association is the general organization of the alumni of the University. The Association maintains an office at the University and publishes a fortnightly periodical, the *Alumni Quarterly and Fortnightly Notes*. The alumni of the College of Medicine, the College of Dentistry, the School of Pharmacy, and the Library School have formed departmental organizations. Forty-five local alumni associations have been organized: fourteen in Illinois, three in Missouri, two each in California, the District of Columbia, New York, Ohio, Texas, and Wisconsin, one each in Colorado, Idaho, Indiana, Iowa, Massachusetts, Michigan, Minnesota, North Dakota, Oregon, Pennsylvania, Tennessee, Utah, Washington, Brazil, India, and Japan. Regular University of Illinois alumni luncheons are held in fifteen cities. (See the Directory of Alumni Associations at the end of this volume.)

### University of Illinois Union

The University of Illinois Union is an association of the men of the University, having for its general object the promotion of college spirit and good fellowship. All male students are eligible to active membership in the Union; alumni and members of the faculty may become associate members.

### The Student Council

The Student Council, consisting of eight seniors and seven juniors, elected annually, has charge of certain undergraduate student activities.

### The Woman's League

The Woman's League was organized to further the spirit of unity among the women of the University and to be a medium for the maintenance of high social standards. The administrative power is vested in an Advisory Board and an Executive Committee composed of representatives from the various women's organizations. Every woman in the University is, by virtue of her registration, a member of the League. The League manages a loan fund, supports a room in the Burnham Hospital, and provides the magazines for the Woman's Building.

### Students' Hospital Fund

The Students' Mutual Benefit Hospital Fund provides ward hospital care for members who become ill and need such care for a period not to exceed four weeks during any semester. Members pay \$1.00 a semester. The Dean of Men is the Trustee of the Fund.

### Literary Societies

The ADELPHIC, IONIAN, and PHILOMATHEAN societies for men, and the ALETHENAI, ATHENIAN, ILLIOLA, and GREGORIAN societies for women, meet weekly, on Fridays, and the JAMESONIAN Society (for women) on Tuesdays, throughout term time.

### The Christian Associations

The present membership of the Young Men's Christian Association is 612. The Association building furnishes free, for the use of all students, lounging room and library, parlors, organization rooms for committee meetings, correspondence tables, and check

room. Religious meetings for men are held occasionally on Sunday afternoon. Thursday evening meetings are addressed by prominent faculty members on ethical topics. Student-led classes in Bible Study are promoted, the teachers receiving training in normal groups. An employment bureau managed by a special secretary, who maintains office hours every afternoon in the Association building, endeavors to help students to find work.

The Y. W. C. A. is housed in the Hannah McKinley building. Dormitory space is provided for fifty young women. There are parlors on the first floor for use of the women rooming in the house, a large assembly room, pianos, organization rooms, and correspondence tables. A modern dining room is located in the basement. There are 1,025 members of the Y. W. C. A. An employment bureau is maintained at the Y. W. C. A. to help University Women to find employment.

At the opening of the college year the Associations endeavor to help new students to find desirable rooming and boarding places. A copy of the Students' Handbook, giving information about Urbana and Champaign, the University, and the various college organizations and activities, will be sent free to prospective students. For this handbook or for further information address the general secretary of either Association.

### HONORARY SOCIETIES

The honorary societies or fraternities named below are private intercollegiate organizations of students and graduates, having for their primary purpose the recognition and encouragement of excellence in scholarship in various departments of study. Election is in all cases made by the societies themselves in accordance with their own rules. The University assumes no responsibility for their elections.

#### *Phi Beta Kappa*

Each year a certain number of the ranking students of the senior class in the College of Liberal Arts and Sciences are elected to membership in the Phi Beta Kappa Society. The number is ordinarily limited to one-fifth of the total membership of the graduating class.

#### *The Phi Beta Kappa Prize*

Gamma of Illinois chapter of Phi Beta Kappa offers annually a prize of \$25 to that member of Gamma Chapter who at his graduation from the College of Liberal Arts and Sciences gives evidence of greatest promise as a scholar in the domain of liberal arts. The award is based on the following considerations: (a) Class room records; (b) other literary and scholarly activities in the University; (c) an essay, which may be a senior thesis or a term paper. At the discretion of the committee in charge, the award may be withheld if none of the essays appears worthy of the prize. Essays submitted in competition and all correspondence with reference to this prize should be addressed to the Secretary of the Phi Beta Kappa Society, University of Illinois. The committee will not be limited in its award to those who have submitted papers specifically for this purpose or have otherwise given formal notice of candidacy. Special consideration will be given to theses deposited in the College Office by candidates for honors in the various departments.

#### *Sigma Xi*

Members of the senior class who give "promise of marked ability" in scientific investigations are eligible to membership in the Sigma Xi Society, which was founded to encourage research in pure and applied science.



### Other Honorary and Professional Societies

Alpha Chi Sigma (Chemistry); Alpha Delta Sigma (Advertising); Alpha Kappa Psi (Commerce); Alpha Rho Chi (Architecture); Alpha Zeta (Agriculture); Beta Alpha Psi (Accounting); Beta Gamma Sigma (Commerce); Delta Sigma Rho (Oratory); Eta Kappa Nu (Electrical Engineering); Farm House (Agriculture); Gamma Alpha (Scientific); Gargoyle (Architecture); Graphomen (Journalism); Kappa Delta Pi (Education); Keramos (Ceramic Engineering); Ma-Wan-Da (Men's Senior Society); Medui (Pre-Medical); Mu Kappa Alpha (Musical); Omicron Nu (Home Economics); Mortarboard (Women's Senior Society); Order of the Coif (Law); Phi Delta Kappa (Educational); Phi Delta Phi (Law); Phi Lambda Upsilon (Chemistry); Pi Tau Sigma (Mechanical Engineering); Sachem (Men's Junior Society); Scabbard and Blade (Military); Scarab (Architecture); Sigma Delta Chi (Journalism); Sigma Mu Rho (Medical); Sigma Tau (Engineering); Tau Beta Pi (Engineering); Tau Sigma Delta (Architecture); Theta Sigma Phi (Journalism); Theta Tau (Engineering); Triangle (Civil Engineering); Tribe of Illini ("I" Men); U. L. A. S. (Landscape Architecture).

### CLUBS AUXILIARY TO COURSES OF STUDY

In addition to the associations and societies of a general character described above, there are in each college a number of societies and clubs devoted to outside work of a literary, scientific, or technical nature auxiliary to the work of various departments of that college. Among these are the following:

In the COLLEGE OF LIBERAL ARTS AND SCIENCES: The Botanical Club, The Celtic Club, *le Cercle Français*, *el Circulo Espanol*, the Chemical Club, the University of Illinois Section of the American Chemical Society, the Classical Club, *der Deutsche Verein*, the English Journal Club, the Geological Journal Club, Hexapœcia, the History Club, the Mathematical Club, the Oratorical Association, the Pen and Brush Club, the Philological Club, the Political Science Club, Psychology Club, the Romance Journal Club, the Scandinavian Club, the Zoological Club.

In the COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION: The Commercial Club.

In the COLLEGE OF ENGINEERING: The Architectural Club, the Association of Engineering Societies, the Student Branch of the American Ceramic Society, the Civil Engineering Society, the Electrical Engineering Society, the Urbana Section of the American Institute of Electrical Engineers, the Student Branch of the American Society of Mechanical Engineers, the Student Branch of the American Association of Engineers, the Student Branch of the American Institute of Mining and Metallurgical Engineers, the Physics Colloquium, the Railway Club.

In the COLLEGE OF AGRICULTURE: The Agricultural Club, the Horticultural Club, the Household Science Club, the Landscape Gardeners' Club, the Hoof and Horn Club, the Soils Research Club.

In the SCHOOL OF MUSIC: The University Choral and Orchestral Society, the University Military Band, the University Women's Glee Club.

In the LIBRARY SCHOOL: The Library Club.

In the LAW SCHOOL: Inns of Court.

### FRATERNITIES, SOCIETIES, AND CLUBS

*National Fraternities.*—Acacia; Alpha Chi Rho; Alpha Delta Phi; Alpha Gamma Rho; Alpha Kappa Psi; Alpha Phi Alpha; Alpha Sigma Phi; Alpha Tau Omega; Theta Delta Sigma; Beta Theta Pi; Chi Phi; Chi Psi; Delta Kappa Epsilon; Delta Phi; Delta Tau Delta; Delta Upsilon; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Gamma Delta; Phi

Kappa Phi; Kappa Psi; Phi Kappa Sigma; Phi Kappa Tau; Phi Sigma Kappa; Pi Kappa Alpha; Psi Upsilon; Sigma Alpha Epsilon; Sigma Alpha Mu; Sigma Phi Epsilon; Sigma Phi Sigma; Sigma Chi; Sigma Nu; Sigma Pi; Tau Kappa Epsilon; Theta Chi; Theta Delta Chi; Zeta Beta Tau; Zeta Psi.

*Sororities.*—Achoth; Alpha Chi Omega; Alpha Delta Pi; Alpha Gamma Delta; Alpha Omicron Pi; Alpha Xi Delta; Chi Omega; Delta Alpha Omega; Delta Gamma; Gamma Phi Beta; Kappa Alpha Theta; Kappa Kappa Gamma; Pi Beta Phi; Sigma Kappa.

*Local Clubs.*—Beta Pi; Beta Upsilon; Bushnell Guild; Chi Beta; Chi Theta; Illus; Pi Pi Rho; Gamma Sigma Kappa.

*Interfraternity Organizations.*—Men's Pan Hellenic Council; Girls' Pan Hellenic Association; Skull and Crescent; Yo Ma; Phi Delta Psi; Ku Klux Klan.

### OTHER ORGANIZATIONS

Other student societies include the following.—Bahai Group; Chinese Students' Club, Comitatus; Christian Science Society; Cosmopolitan Club (Men's); Cosmopolitan Club (Women's); Illinois Drama Federation; Japanese Students' Club; Komenian Society; Latin American Club; Lambda Epsilon Phi (Republican); Mask and Bauble (dramatic); Pierrots (vaudeville); Scribblers' Club; Socialist Study Club; Menorah; Country Life Club; Dames' Club; Woman's War Relief Committee.

# UNDERGRADUATE SCHOLARSHIPS

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(For circulars giving more detailed information concerning scholarships, apply to the Registrar of the University.)

## COUNTY SCHOLARSHIPS

A law passed by the General Assembly of the State of Illinois at the session of 1905, embodied in the General School Law of 1909, and amended in 1917 and 1919, provides that one scholarship may be awarded annually to each county of the State. The holder thereof must be at least sixteen years of age, and a resident of the county to which he is accredited. No student who has attended the University of Illinois is eligible for one of these scholarships. The holder of a scholarship is relieved of payment of the matriculation and incidental fees for four years in any department of the University.

A competitive examination, under the direction of the President of the University, and on such branches of study as the President may select, is held on the first Saturday in June of each year, at the county court house in each county by the County Superintendent of Schools. Questions for the examinations are furnished in advance to the County Superintendents.

The successful candidates in the examinations must then meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class, and must register the following September.

In case the scholarship in any county is not claimed by a resident of that county, the President of the University may fill the same by assigning to that county from some other county the student found to possess the next highest qualifications.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such leave of absence, and may be allowed an extension of his scholarship for not more than two years (making not more than six years in all from the beginning of the scholarship). Such extension will not be granted unless the student has been in attendance at the University for at least one full semester, nor unless the student's average grade during the period of his attendance has been at least C, exclusive of grades in military science and physical education.

## GENERAL ASSEMBLY SCHOLARSHIPS

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University, granting the same privileges as the county scholarships.

A member of the General Assembly who wishes to nominate a candidate for a scholarship should file the name and address of his nominee as early in the spring as practicable and not later than June 1, with the President of the University.

The nominee, if a graduate of a school accredited by the University, shall be admitted to the University on the same conditions as to educational qualifications as are graduates of such accredited high schools not so appointed to scholarships, and if any such candidate is not a graduate of a school accredited by the University, he shall present himself for examination—the same that is given to competitors for the county scholarships on

the first Saturday in June, under the County Superintendent. The nominee must further (1) meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class; and (2) register in the University the following September.

If a nominee fails to make a passing grade (70) in the scholarship examination he may not receive the scholarship. In this case notice will be sent to the member of the General Assembly who made the nomination, who is then entitled to nominate a second candidate, before the first registration day in September. This second candidate is subject to all the requirements stated above; the scholarship examination will be given him at the University on the Wednesday preceding the fall registration days (in 1920, September 15).

A General Assembly scholarship may be extended under the same conditions as a county scholarship.

### SCHOLARSHIPS IN CERAMIC ENGINEERING

The University offers annually, to each county in the State, one scholarship, awarded on the nomination of the Illinois Clay Workers' Association, to applicants who intend to follow the curriculum in Ceramic Engineering. These scholarships are good for four years and relieve the student from the payment of the matriculation fee (\$10, payable once, on entrance), and the incidental fee (\$30 a year).

The candidate must be at least sixteen years of age, must be a resident of the county for which he is nominated, and must meet *in full, before entering*, by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class.

Acceptable candidates, residents of counties for which appointments have been made, not exceeding five in number from any one county, may be assigned to counties for which no recommendations are made. The first nominee from each county, if duly qualified, is awarded the scholarship at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties for which there are no nominees registered are made on October 15, at which time the nominees so assigned to counties other than their own receive rebates of the full amount to the matriculation and incidental fees paid.

### SCHOLARSHIPS IN AGRICULTURE AND HOME ECONOMICS

The University offers every year to each county in the State, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of agriculture in the College of Agriculture and one for prospective students of home economics in the College of Liberal Arts and Sciences or the College of Agriculture.

Appointments to scholarships in agriculture are made by the Trustees of the University on the recommendation of the Executive Committee of the Illinois Farmers' Institute; and to scholarships in Home Economics on the recommendation of the County Domestic Science Associations, or, for counties and districts in which there are no domestic science associations, on the recommendation of the Illinois Farmers' Institute. Persons who have already attended the University are not eligible, and no person will be assigned a scholarship unless his name is received by the Registrar of the University on or before the registration days of the semester with which the scholarship is to begin.

Candidates who are able to meet in full the requirements for admission to the freshman class are eligible for appointment at 16 years of age. Candidates who cannot meet these entrance requirements are eligible for appointment as special students (in the College of Agriculture) at 21 years of age.

Acceptable candidates, residents of counties or districts for which appointments have been made, not exceeding five in number from any one county or district, may be assigned to counties or districts for which no recommendations are made. The first nominee from

each county or district, if duly qualified, is awarded the scholarship at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties and districts for which there are no nominees registered are made on October 15, at which time the nominees so assigned to counties or districts other than their own receive rebates of the full amount of the matriculation and incidental fees paid.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee (\$10, payable once, on matriculation), the incidental fee (\$30 a year), and (in the case of special students) the tuition fee (\$15 a year). If, before a scholarship expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he or she is enrolled, the term of the scholarship may be extended to four years from the date of the student's matriculation.

### THOMAS J. SMITH SCHOLARSHIPS IN MUSIC

Captain Thomas J. Smith, of Champaign, Illinois, on September 17, 1914, conveyed to the Board of Trustees of the University certain farm lands in Champaign County, in consideration whereof the Board of Trustees agreed to erect a building for the music departments of the University, to be known as the Tina Weedon Smith Memorial Building, and further to grant annually in the University four free scholarships in the music departments "for young women who may seek a musical education but who are unable to pay the customary charges for instruction in music;" these scholarships to be assigned by way of preference to candidates from Champaign County, but in case there are no candidates from this county, to be assigned to young women from other counties in Illinois

#### Regulations:

(1) These scholarships shall be good for one year and shall exempt their holders. during this period from matriculation, incidental, and music fees.

(2) A person who during her year of tenure of one of these scholarships shall make an average grade of B in all subjects shall be eligible for reappointment to it for a second year, and on the same basis may be reappointed for a third year and a fourth year.

(3) Each applicant for original appointment to one of these scholarships shall present a recommendation from the principal of a high school accredited to the University, certifying that she is a graduate of the high school, that she is a student of ability and promise, and that in the judgment of the principal of the high school she is unable to pay the customary charges for instruction in music.

(4) Each applicant for original appointment to one of these scholarships shall pass the University entrance examinations in the following subjects: English composition and rhetoric, 1 unit; algebra, 1 unit; Latin or French or German, 2 units; music, 2 units; these examinations to be taken with the regular fall entrance examinations of the University. The scholarships shall be awarded to the candidates from Champaign County who make the highest average grade in these four examinations. In case the number of successful candidates from Champaign County is fewer than the number of available scholarships, the remaining scholarships shall be awarded to the candidates from other counties in Illinois having the highest average grade in these four examinations. But no scholarship shall be awarded to any candidate who fails to make a passing grade (70) in any one of the four subjects of the examination.

(5) A candidate for original appointment must also satisfy in full the entrance requirements of the School of Music as stated in the University catalog, and must matriculate in that School for the full semester immediately succeeding the examination.

(6) No person who has attended the University shall be eligible for appointment to these scholarships.

**JOSEPH T. RYERSON AND SON SCHOLARSHIPS**  
**(Mechanical or Railway Engineering)**

The Joseph T. Ryerson and Son Scholarships of the American Railway Master Mechanics' Association, two in number, provide each for an annual stipend of \$300.00 to be paid to the beneficiary during the four years of his attendance in an engineering course at the University of Illinois, the University of Wisconsin, or Purdue University. Competitive examinations for these scholarships are conducted by the three universities in turn. The last appointment was made for September, 1919, and the examination was conducted in June, 1919, by the University of Illinois. Practical railroad experience is considered in the selection of candidates. Beneficiaries are expected to spend two years after graduation in the mechanical department of some railroad, and when financially able to do so to refund in convenient sums the amount of the scholarship for the benefit of others. For further information address Jos. W. Taylor, Secretary of the American Railway Master Mechanics' Association, 1112 Karpen Building, Chicago, or the registrar of any one of the three universities concerned.

**MILITARY SCHOLARSHIPS**

Students who have had three semesters of class instruction in military science and four semesters of drill practise are eligible for appointment as commissioned officers of the University Corps of Cadets. To those attaining this rank, special military scholarships, good for one year, and equal in value to the university incidental fees for the year, are open. The amount of these scholarships is paid the holders at the close of the academic year. Appointments in the Corps of Cadets are made on the recommendation of the Commandant of Cadets, confirmed by the Council of Administration.

**STATE MILITARY SCHOLARSHIPS**

By an amendment to the General School Law passed by the General Assembly of 1919 the following additional provision in regard to scholarships in the University of Illinois was inserted:

"SECTION 173a. Any person who served in the army, navy or marine corps of United States, not including members of the Students' Army Training Corps during the World War, who, at the time of entering upon such service, was a resident of this state, and who has been honorably discharged from such service, and who shall possess all necessary entrance requirements shall, upon application and proper proof, be awarded a University of Illinois scholarship.

"Any person who served as above stated, and who, at the time of entering upon such service, was a student at the University of Illinois, and who was honorably discharged from such service, shall, upon application and proper proof, be entitled to finish and complete his course of study at the University of Illinois without tuition and matriculation charges, but such person shall not be entitled to more than four years of gratuitous instruction. . . . .

"The provisions of Section 173a, however, shall not apply to persons who were convicted by court martial of disobedience of orders, where such disobedience consisted of the refusal to perform military service on the ground of alleged religious or conscientious objections against war."

To be eligible for appointment to a Military Scholarship, a candidate must establish the following facts:

- (1) That he served in the army, the navy, or the marine corps of the United States, exclusive of the Students' Army Training Corps, during the World War.
- (2) That he was honorably discharged from such service.

(3) That he was not convicted by court-martial of disobedience of orders, consisting in the refusal to perform military service "on the ground of alleged religious or conscientious objections against war."

(4) That at the time of entering upon his service he was a resident of the State of Illinois or a student in the University of Illinois.

(5) That he possesses "all necessary entrance requirements"; i. e., that he can meet in full the requirements set forth in the Annual Register of the University for matriculation in the college or curriculum of the University which he proposes to enter. These requirements include graduation from an accredited high school, with fifteen units in acceptable subjects, including certain prescribed subjects. A candidate who is not a graduate of an accredited high school may meet the requirements by passing entrance examinations.

### OTHER SCHOLARSHIPS

*For scholarships in the College of Law, see page 207.*

*For scholarships in the Summer Session, see page 200.*

*For fellowships and graduate scholarships, see under Graduate School, page 177.*

# BENEFICIARY AID

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## EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899 Edward Snyder, Professor of the German Language and Literature, *Emeritus*, gave the University the sum of \$12,000, to be lent to worthy students to enable them to finish their courses in the University.

This fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars; the maximum loan is one hundred fifty dollars to a junior, and two hundred dollars to a senior or graduate student. Notes of hand are taken for the amount of the loans, with five per cent interest. The maximum time limit is for juniors three years and for seniors and graduates two years from the ensuing thirtieth of June.

Loans are made only to matriculated students who have attained at least the full rank of junior, who have been in residence at the University at least one year, who are at the time students in residence at the University, and who have declared their intention to graduate.

In recommending loans, preference is given to those students who are most advanced in their university work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in living. No distinction is made on account of sex or course of study. A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

## CLASS OF 1895 LOAN FUND

A fund of \$100 was established by the class of 1895, to be lent to needy and deserving students. According to the conditions of the gift, the sum of fifty dollars is to be lent annually, and the benefit of the fund is open only to students who, at the time of application, are members of the freshman class. The loan bears interest from the time the recipient leaves the University, and is due one-half in five years and one-half in six years after matriculation. The fund is in charge of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

## GRADUATE CLUB LOAN FUND

A fund of \$75 was established by the members of the Graduate Club in 1907-1908, for the benefit of graduate students. Its administration is in the hands of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

## WOMAN'S LEAGUE LOAN FUND

In December, 1910, the Woman's League of the University gave to the University the sum of \$409.44 to be known as the Woman's League Fund. This fund is available for any woman matriculated in the University and is administered in the same way as the Snyder Loan Fund.

## WILLIAM B. M'KINLEY LOAN FUND

In September, 1912, the Hon. William B. McKinley of Champaign, Illinois, turned over to the University notes aggregating something more than \$12,000, this amount as



it is collected to be used as a loan fund for undergraduate men. In making the donation, Mr. McKinley stipulated that loans should be made to students on their personal notes, and that a preference should be shown in making these loans to upperclassmen. The notes draw interest at five per cent and become due two years after the student's graduation. Applications for loans should be made in writing and should be addressed to the Chairman of the Loan Fund Committee.

#### **HENRY STRONG LOAN FUND**

Mr. Gordon Strong, of Chicago, trustee of the Henry Strong Educational Fund, offered for 1918-19 the University \$250 to be lent to self-supporting students of high scholastic attainments. The loan bears interest at four per cent and is payable within one year after graduation.

#### **MARGARET LANGE JAMES LOAN FUND**

In 1915 President Edmund J. James established the Margaret Lange James Loan Fund in memory of his wife. The original fund (\$5,000) given by President James has been supplemented by gifts from other persons, and the fund now amounts to about \$5,650.

Loans from this fund may be made to matriculated students, preferably women who have been in residence at the University at least one year, who have attained at least junior standing, and who are at the time of application students in residence, who have declared their intention to graduate. In recommending loans, only students of promise and good scholastic standing are considered, and, other things being equal, preference is given to those who are the farthest along in their University work. A loan is not recommended for any student who is believed to be financially or morally delinquent in any respect.

Applicants for loans are required to offer security other than their own signatures, and no member of the faculty or other person directly connected with the University is accepted as security for any student loan.

Loans bear interest until maturity at five per cent, payable semi-annually. The maximum time for which notes may be drawn is two years from the thirtieth day of June next following the student's regular time of graduation. Bank discount is charged for the time until the thirtieth day of June next following the date of the note. Interest at seven per cent is charged on all notes not paid at maturity.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

#### **WOMAN'S PHARMACY LOAN FUND**

In May, 1917, the Woman's Organization of the Chicago Retail Druggists' Association gave to the University the sum of \$115, to be used in establishing a loan fund in the School of Pharmacy. This fund is to be lent to a deserving woman student, preferably from Illinois, who is enrolled in the School. The loan is made on the recommendation of the Dean and is to be repaid within three years for a junior student and within two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

#### **LIBRARY SCHOOL FUND**

The University of Illinois Library School Association has voted to make all surplus funds in its treasury available for loan to senior library school students. Over \$250 is available for that purpose on the vote of the School faculty.

**FIRST FUND FOR OVERSEAS SOLDIERS**

A fund of \$1,000 was established in February, 1919, by an anonymous donor, for American soldiers and officers who have served in the military service in actual warfare in Europe or on the adjoining waters in 1917 and 1918, and for their descendants. Recent additions have increased the fund to \$2,000. This fund is to be available in their junior, senior, or post-graduate years to enable the applicants to remain and complete their work in any department of the University and in the first, second, third, or fourth year of any of the courses in agriculture in the University. The applicant is required to show papers of honorable discharge from the military service of the United States and one or more affidavits proving actual service in Europe, or proof, when such is the case, that he is a descendant of such soldier. The minimum loan is \$20 and the maximum total loan to any one person, \$200. The time limit is four years and the notes bear no interest. The fund is administered by the Loan Fund Committee.

# FEES AND EXPENSES

## GENERAL FEES

*All University fees are payable each semester in advance.*

**Colleges of Liberal Arts and Sciences, Commerce and Business Administration, Engineering, Agriculture, and Law, School of Music, and Library School**

<i>Matriculation Fee.</i> Each student not holding a scholarship, on satisfying the requirements for admission to the University, pays the matriculation fee of . . .	\$10.00
<i>Incidental Fee.</i> All students, excepting those holding scholarships, pay, each semester, an incidental fee of . . . . .	25.00
<i>Tuition Fee.</i> Students conditioned on entrance requirements, and special students (except special students in agriculture or home economics holding scholarships), pay, each semester, a tuition fee of . . . . .	7.50
<i>Laboratory Fees.</i> Each student working in laboratories, or in the drafting or engineering classes, is required to pay a fee varying from \$0.50 to \$10.00, to cover materials and apparatus used and breakages or damages.	
<i>Listener's Fee.</i> Persons not connected with the University who attend classes as listeners, pay for each course, each semester . . . . .	7.50
<i>Late Registration Fee.</i> A former student who enters after the Registration Days in either semester must pay a late registration fee of . . . . .	1.00
<i>Change Fee.</i> For every change of study-list made later than the tenth day of instruction of either semester a fee of \$1.00 is charged, except that the total charge for the rearrangement authorized on any one change-slip shall not exceed \$2.00. . . . .	1.00
<i>Special Examination Fee.</i> For any special examination, except examinations for advanced standing taken within sixty days after matriculation, the fee is . . .	5.00
<i>Diploma Fee</i> . . . . .	10.00

## School of Music

### *Special Fees*

Matriculated students, residents of Illinois, pay, each semester, the incidental fee \$15.00

In addition to the above general fees students registering in courses in applied music (voice, piano, violin, violincello, organ, or band instruments) pay special music fees as follows:

For one lesson a week . . . . .	\$ 3.00
For two lessons a week . . . . .	5.00
Piano for practise one hour a day each semester . . . . .	3.00
Additional hours at the same rate.	
Organ for practise one hour a day for one semester . . . . .	20.00
For one-half semester . . . . .	10.00

*Fees and Expenses***College of Medicine***Freshman Year*

Matriculation <sup>1</sup> .....	\$ 10.00
Registration.....	5.00
Laboratory.....	30.00
General Tuition.....	120.00
Total.....	<u>\$165.00</u>

*Sophomore Year*

Registration.....	\$ 5.00
Laboratory.....	35.00
General Tuition.....	120.00
Total.....	<u>\$160.00</u>

*Junior Year*

Registration.....	\$ 5.00
Laboratory.....	5.00
General Tuition.....	140.00
Total.....	<u>\$150.00</u>

*Senior Year*

Registration.....	\$ 5.00
General Tuition.....	155.00
Diploma fee.....	10.00
Total.....	<u>\$ 165.00</u>

**College of Dentistry<sup>2</sup>**

Matriculation fee <sup>1</sup> .....	\$ 10.00
Registration fee (paid each year).....	5.00
Tuition fees:	
First year.....	122.00
Second year.....	117.00
Third year.....	132.00
Fourth year.....	150.00

**LABORATORY FEES:***First year:*

Zoology.....	\$ 8.00
Chemistry—	
Inorganic.....	8.00
Qualitative.....	5.00
General Histology.....	5.00
Technical Drawing.....	2.00
Locker.....	2.00

<sup>1</sup> Not payable if the student has previously matriculated in any other college of the University of Illinois.<sup>2</sup> Students taking gross anatomy are required to make a deposit of \$5.00 for bones.

*Second year:*<sup>1</sup>

Anatomy (gross).....	\$ 8.00
Bacteriology.....	5.00
Chemistry—	
Organic.....	8.00
Physiological.....	8.00
Dental Histology.....	4.00
Locker.....	2.00

*Third year:*<sup>2</sup>

Pathology.....	\$ 5.00
Metallurgy.....	5.00
Physiology.....	5.00
Dental Pathology.....	3.00
Electric Engine.....	10.00
Operating gowns and laundry.....	7.00
Locker.....	2.00

*Fourth year:*<sup>2</sup>

Electric engine.....	\$ 15.00
Operating gowns and laundry.....	10.00
Diploma.....	10.00
Locker.....	2.00

## School of Pharmacy

Matriculation fee (paid but once).....	10.00
Registration fee (paid each year).....	5.00
Tuition fee, first and second years.....	60.00
Tuition fees, third year.....	95.00
Laboratory fee, each semester.....	15.00
Laboratory deposit, first and second years.....	10.00
Laboratory deposit, third year.....	15.00
Diploma fee.....	10.00

<sup>1</sup> Students taking gross anatomy are required to make a deposit of \$5.00 for disarticulated skeleton.<sup>2</sup> Students practising in infirmary are required to make a deposit of \$5.00 for electric engine and \$1.00 for towels.

## AVERAGE ANNUAL EXPENSES

The following are estimated average annual expenses for undergraduate students attending at Urbana, *exclusive* of clothing, railroad fare, and laboratory fees, if any. This includes only the immediate and fundamentally necessary expenses.

Books and Equipment.....	\$ 25.00 to \$ 75.00
Fees <sup>1</sup> .....	30.00 to 75.00
Room rent for one (two in a room) <sup>2</sup> .....	72.00 to 135.00
Board at Clubs, etc.....	260.00 to 360.00
Washing.....	30.00 to 45.00
Total.....	\$417.00 to \$690.00
Single rooms.....	108.00 to 135.00

Other necessary expenses will need to be taken into consideration. For all the necessary expenses of the year the average student is likely to need not less than \$500.00 to \$700.00. Most students spend more than this amount.

For information in regard to scholarships which cover the matriculation and incidental fee, see page 103.

## Board and Rooms

The University does not provide dormitories nor furnish board, except in the Woman's Residence Hall. The numerous rooming and boarding houses near the campus are to a certain extent under the supervision of the University. The Young Men's and Young Women's Christian Associations of the University will aid new students in securing rooms and board.

*Prospective women students and their parents are invited to correspond with the Dean of Women in regard to suitable places.*

## WOMAN'S RESIDENCE HALL

The Residence Hall for women has accommodations for ninety-eight women students. A flat rate is charged per year of thirty-eight weeks for room, laundry of sheets and pillow cases, and board in the Residence Hall as follows:

Single room .....	\$370.50
Double room, each occupant .....	323.00
Double room with private bath (two available), each occupant.....	342.00

Half the amount must be paid to the Bursar before the close of the registration period at the opening of the first semester, and the balance before the close of the registration period at the opening of the second semester.

Applications for rooms will be received by the Bursar after April 1 for the following college year. Applications are registered in the order of their receipt, but no application will be registered unless accompanied by a deposit of ten dollars, which will be credited on the payment for the second semester. After May 1 rooms are assigned in the order of application, the women living in the hall having preference. After all the rooms have been assigned the names of those who are unsuccessful will be put on a waiting list if the deposit has not been withdrawn, and as vacancies occur, assignments will be made to them in order.

Application cards and further information may be secured by writing to the Dean of women.

<sup>1</sup> Students of music, special students, and conditioned students must make needed changes in the amount given for "semester fees."

<sup>2</sup> Single rooms \$108-135.

PART II  
THE COLLEGES AND SCHOOLS





# THE COLLEGE OF LIBERAL ARTS AND SCIENCES

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For a description of the *buildings* used by this College, see page 51; for *museums* and *collections* belonging to it (classical art and archeology, oriental, education, European culture, botany, entomology, geology, and zoology), see pages 61-63; for a summary of its *courses*, see page 66; for *clubs and societies* auxiliary to its curriculums see page 101; for *fees*, see page 111.

## PURPOSE

The purpose of the College of Liberal Arts and Sciences, in which were merged in 1913 the former College of Literature and Arts, and the College of Science, is, first, to secure to its students a liberal education including both the humanities and the sciences; second, to furnish especially arranged curriculums preparatory to later professional and technical studies by which good students may ordinarily obtain in six years both the degree in arts and a professional degree in law or medicine, or a technical degree in engineering; and, third, to provide certain highly specialized curriculums in applied science (particularly chemistry), journalism, and home economics. The degree of Bachelor of Arts is conferred on the completion of all these curriculums, except those in applied science, for which the degree of Bachelor of Science is given.

Under the modified elective system a student who desires to prepare for teaching may specialize to a considerable extent in the subject which he wishes to teach and may also find time for courses in education and related subjects of interest to teachers. Such students should, as a rule, continue their preparation in the Graduate School.

Students who desire to devote a considerable part of their undergraduate study to specific preparation for some calling other than teaching may select courses in law, medicine, dentistry, journalism, or applied chemistry, or household administration, in accordance with curriculums given in detail in the following pages.

## ADMISSION

See the statement of the entrance requirements of the University, pages 68-75.

## SPECIAL STUDENTS

For a statement of the regulations of the University in regard to special students, see page 72.

It is the policy of this College to admit as special students only a select group of mature and serious persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for work of college grade, and have a specific and clearly defined purpose in their study.

## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

A. *University Requirements*.—Each candidate must meet the general university requirements with respect to registration and residence, and must also secure credit in approved courses amounting to one hundred thirty hours, an hour being one class period a week for one semester. Each class period presupposes two hours preparation by the student, or the equivalent in the laboratory or drawing room.

B. *Prescribed Subjects*.—Rhetoric 1-2; Physical Education 1-2 and 1a for men; Physical Education 7a-7b and 9 for women; Military Science 1, 2, 3, 4, for men.

C. *Group Requirements*.—Every candidate must offer the minimum of work specified in each of the following groups:

I. *English*.—The offering in this group must include at least a one-semester course in literature.

II. *Foreign Languages and Literatures* (exclusive of courses in translation).

If a student has offered but two units of a foreign language for entrance to the University, he must pursue the study of foreign language through two year courses or the equivalent. If he has offered for entrance three or more units of foreign language, he must continue the study of foreign language through one year of his college course.

*Note*: Candidates for the degree who have not offered Greek or Latin or French or German for entrance must offer one of these languages for graduation.

III. *History, Political and Social Science*.—History, economics, political science, sociology: 8 hours.

IV. *Mathematics and Physical Science*.—Mathematics, astronomy (courses with college mathematics as prerequisites), physics, chemistry: a minimum of 5 hours, with a minimum total of 15 hours in Groups IV and V.

V. Botany, including bacteriology, entomology, geology, physiology, zoology: a minimum of 5 hours, with a minimum total of 15 hours in Groups IV and V.

VI. Education, philosophy, psychology: 6 hours, of which 3 shall be in philosophy or psychology.

D. *Major Subjects*.—Each candidate must select some subject as his major. A major consists of courses amounting to 20 hours chosen from among those designated by a department and approved by the faculty of the college. Such courses are to be exclusive of those elementary or beginning courses which are open to freshmen, and inclusive of some distinctly advanced work. At least five hours of the work accepted for a major must have been done in residence at this University and included within the maximum credits allowed in any one division. See the statements regarding majors under departmental announcements in Part III.

The subjects at present recognized as majors in this college are: Astronomy, bacteriology, botany, chemistry, classics, education, economics, English, entomology, French, geology, German, Germanic languages, Greek, history, home economics, Latin, mathematics, philosophy, physiology, physics, political science, psychology, Romance languages, sociology, Spanish, zoology.

E. *Minor Subjects*.—Each candidate must offer, in addition to his major, a minor of 20 hours in one or more allied subjects designated by the major department and approved by the faculty of the college. *At least 8 hours must be offered in one subject.* See the statements regarding minors under departmental announcements in Part III.

F. *Elective Subjects*.—

1. Not more than 40 hours in any one subject may be counted for graduation, except: (a) in special curriculums approved by the faculty of the college; (b) when a student is writing a thesis, he may count, in addition to the 40 hours, the hours of the course in which he does his thesis work; (c) in the department of English a student may take 40 hours in addition to Rhetoric 1-2.

*Note*: The total credit in art and design is limited to 20 hours.

2. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours for one semester, he must stay in the class during one semester in order to get any credit at all. *In order to secure any credit in a beginning course in a foreign language, a full year's work must be completed.*

3. A limited amount of credit toward the degree of Bachelor of Arts is ordinarily given for courses offered in other colleges and schools of this University, as follows:

### Electives in other Colleges and Schools

#### *College of Agriculture:*

Agricultural Extension 1 (High School Agriculture).

Agronomy 9 (Soil Physics), 11 (Soil Biology), 12 (Soil Fertility), 22 (Plant Breeding).

Animal Husbandry 7 and 31 (Animal Nutrition), 30 (Genetics).

Dairy Husbandry 11, 12a-12b (Dairy Bacteriology).

Horticulture 9 (Forestry), 12 (Horticultural Evolution), 36 (History of Landscape Gardening), 37a (Civic Design), 42 (Landscape Design).

The total credit allowed in agricultural courses may not exceed 14 hours except to students who do major work in entomology, who may be allowed 20 hours to be chosen from the above courses with the addition of Agronomy 7 and 25, and Horticulture 1a, 1b, 2, 3, 6 and 7.

#### *College of Commerce and Business Administration:*

Accountancy 1a-1b (Principles of Accounting), 13 (Municipal Accounting).

Business Organization 1 (Business Organization), 9 (Commercial and Civic Organizations).

Business Law 1a-1b (Commercial Law,—no credit given to students in the combined arts-law curriculum).

Economics, all courses except 9, 14, 15, 32, 34.

Transportation 1 (U. S. Transportation System), 2 (Transportation Policy).

The total credit allowed for courses in Commerce may not exceed 40 hours.

#### *College of Engineering:*

Architecture 13, 14, 15, 16 (History of Architecture), 31, 32 (Architectural Drawing).

Civil Engineering 27 and 28 or 33 and 34 (Surveying), 94 (Highway Administration).

Drawing, General Engineering 1 (Elements of Drafting); 2 (Descriptive Geometry).

Electrical Engineering 4 and 64 or 8 and 68.

Mechanical Engineering 11, 12 (Thermodynamics), 30 (Mechanics of Machinery).

Mechanics, Theoretical and Applied, all courses.

The total credit allowed in engineering courses may not exceed 24 hours.

#### *College of Law:*

A student in the College of Liberal Arts and Sciences, who earns at least 30 hours in this college, may take and count towards the degree of Bachelor of Arts not to exceed 30 hours of work in the College of Law, provided that not less than two courses amounting to at least five hours are taken each semester, under the advice of the Dean of the College of Law as to the courses to be taken. Courses in law may not be taken before the junior year by students enrolled in this college.

Law 14 (Carriers), 24 (Municipal Corporations), 28 (Insurance), and 34 (Public Utilities) are open to students of this college offering political science or economics as a major subject who have had a previous course in law or political science involving the study of cases.

#### *Library School:*

Library Science 2a-2b or 12 (Reference), 7 (History of Libraries), 9 (Bookmaking), 13a-13b (Public Documents).

*School of Music:*

The total credit allowed for courses in music may not exceed 16 hours. At least one-half the credit must be taken in courses in the history and theory of music (1-14 inclusive). Credit may be allowed in practical music for courses preceded by Music 3 and 4 and exclusive of courses open to freshmen to an amount not to exceed one-half of the total allowed any student. No credit will be allowed for courses in public school music.

*Physical Education.*

Not to exceed 5 semester hours for men and 7 semester hours for women.

*Military Science and Tactics:*

Military Science not to exceed 8 semester hours.

G. *Bachelor's Thesis:* A bachelor's thesis is not generally required in this college. Students of high standing are, however, encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as part of the work in some course for which the student is registered. The presentation of a thesis is required of all candidates for the honor degree. See page 90.

H. *Optional Degree of Bachelor of Science:* Students who do major work in one of the subjects in Groups IV or V, or in home economics, on petition to and recommendation of the faculty may be graduated with the degree of Bachelor of Science instead of Bachelor of Arts.

## ARRANGEMENT OF COURSES

## First Year

*Subjects Prescribed for Freshmen*

The following subjects must be taken during the freshman year: *Rhetoric* 1-2,<sup>1</sup> three hours each semester; *Military* 1a, 1b, one hour first semester, and *Military* 2a, 2b, one hour second semester (for men); *Physical Education* (Physical Education 1-2 and 1a for men; 7a-7b and 9 for women).

*Freshmen Electives*

The following subjects are open to freshmen. The total amount including military and physical training taken in any semester is limited to eighteen hours and should not be less than fifteen. These courses are here scheduled according to the usual semester hours, and not according to the quarters and quarter hours of the program of 1918-19.

## FIRST SEMESTER

I. English 10<sup>2</sup> (3),<sup>3</sup> Rhetoric 1 (3), or 2 (3).

II. French 1a (4) or 1b (4) or 2a (4); German 1 (4) or 2 (4) or 4 (4) or 5 (4); Greek 1a (4) or 3 (3); Latin 1a (4) or 2a (4) or 6 (4); Spanish 1a (4) or 1b (4) or 2a (4) or 3a (3); Italian 1a (4).

<sup>1</sup>See special examination in Rhetoric 1, page 75.

<sup>2</sup>English 10-11 is open only to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 312.

<sup>3</sup>The figure immediately following the subject is the number of the course (see page 249), the figure in parenthesis indicates the number of credit hours to be secured in the course of each semester.

III. Economics 7 (3) and 26 (3); History 1a (4) or 2a (3).

IV. Mathematics 2<sup>1</sup> (3) and 4<sup>1</sup> (2) [prerequisite: entrance algebra, 1½ units and plane geometry, 1 unit], 3 (5); Astronomy 1 (3) [prerequisite: trigonometry]; Chemistry 1<sup>1</sup> (5) or 1a<sup>2</sup> (3); Physics 7a<sup>2</sup> and 8a<sup>2</sup> (5).

V. Botany 1<sup>1</sup> (5); Entomology 1a<sup>1</sup> (3), 1b (3), 3a (2), 4 (3); Geology 1<sup>1</sup> (5), 14 (3), 35 (5); Zoology 1<sup>1</sup> (5).

Home Economics 2 (2) or 7 (2).

Library Science 12<sup>3</sup> (2).

Art and Design 1<sup>3</sup> (3).

## SECOND SEMESTER

I. English 11<sup>4</sup> (3);<sup>1</sup> Rhetoric 1 (3) or 2 (3).

II. French 1a (4) or 1b (4) or 2b (4); German 1 (4) or 3 (4) or 4 (4) or 5 (4) or 6 (4) or 7 (3); Greek 1b (4), or 4 (4), Latin 1b (4), or 2b (4); Spanish 1a (4) or 1b (4) or 2b (4) or 3b (3); Italian 1b (4).

III. Economics 22 (3) and 27 (3); History 1b (4) or 2b (3).

IV. Mathematics 2 (3) and 4 (2) [prerequisite: entrance algebra 1½ units, and plane geometry, 1 unit], 6 (5); Astronomy 2 (3); Chemistry 1<sup>1</sup> (5) or 1a<sup>1</sup> (3) or 2a (5); Physics 7b and 8b (5).

V. Botany 1<sup>1</sup> (5), 2b (5), 3a (5), 4 (3), 4a (5), 24 (3), 27b (5); Entomology 1a (3) 1b (3), 3b (2), 4 (3); Geology 1 (5), 22 (3), 35 (5); Zoology 1<sup>1</sup> (5), 2 (5), or 16 (2).

Home Economics 1<sup>5</sup> (3) or 7 (2).

Library Science 12<sup>1</sup> (2).

Art and Design 1<sup>1</sup> (2), 2 (2), 10 (1), 12 (2).

## Second Year

Male students must continue Military throughout the second year. Students who have failed to secure credit for any of the prescribed subjects of the freshman year must make up such deficiencies at this time.

## Election

Aside from the subjects prescribed for the first two years, each student selects, with the advice of the Dean or other college advisers, such courses as will enable him to meet the requirements for graduation as stated above.

## CURRICULUM IN JOURNALISM

Students who are preparing for reportorial, literary, or editorial work in journalism should take their major work in English, and make up their study schedules from the following suggested curriculum. With the consent of the adviser, other studies may, for purposes of specialization, be substituted for those suggested. A program which satisfies the group and major requirements may, for instance, be so modified in the third and fourth years as to lay emphasis on any one of the social sciences.

Students in journalism with major in English are subject to the requirements of the General Curriculum in Liberal Arts and Sciences.

<sup>1</sup> Either semester.

<sup>2</sup> Prerequisite: Mathematics 4 (Trigonometry) which may be taken at the same time.

<sup>3</sup> May be taken either semester, but not in both.

<sup>4</sup> English 10-11 is open to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 312.

<sup>5</sup> Prerequisite: Entrance credit in Physics, and Chemistry 1 or 1a.

## Curriculum in Journalism

(Major in English)

## FIRST YEAR

FIRST SEMESTER	
<i>Prescribed Subjects</i>	Hours <sup>1</sup>
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1
Military 1a—Military Drill.....	$\frac{1}{2}$
Military 1b—Military Theory.....	$\frac{1}{2}$
Total.....	5
<i>Suggested Electives</i>	
Engl. 10—Introduction to Literature.....	3
Science.....	5
Foreign language.....	4
Hist. 1a—Continental European History.....	4
Lib. Sci. 12—General Reference.....	2

SECOND SEMESTER	
<i>Prescribed Subjects</i>	Hours <sup>1</sup>
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Total.....	5
<i>Suggested Electives</i>	
Eng. 11—Introduction to Literature.....	3
Science.....	5
Foreign language.....	4
Hist. 1b—Continental European History.....	4

## SECOND YEAR

<i>Prescribed Subjects</i>	
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$
<i>Suggested Electives</i>	
Eng. 1—Survey of English Literature.....	4
Science.....	5
Eng. 12—American literature.....	2
Foreign language continued.....	4
Hist. 3a—History of United States.....	3
Pol. Sci. 1—American National Government	3
Econ. 1—Principles of Economics.....	5
Journalism 1—Collecting and Writing of News	3

<i>Prescribed Subjects</i>	
Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 4b—Military Theory.....	$\frac{1}{2}$
<i>Suggested Electives</i>	
Engl. 1—Survey of English Literature.....	4
Econ. 3—Money and Banking.....	3
Engl. 23—Shakespeare; or English 13; Am- erican Literature.....	3 or 2
Foreign language continued.....	4
Hist. 3b—History of United States.....	3
Journalism 2—The Newspaper.....	3
Pol. Sci. 3—State and Local Government..	3

## THIRD AND FOURTH YEARS

Study lists for these years should be arranged from the following list with regard to proper sequence.

Economics	Hours <sup>1</sup>
4—Financial History of U. S.....	3
12a—Labor Problems.....	3
English	
27—History of Journalism.....	2
21—Literary Study of the Bible.....	3
45—Development of the Modern Drama...	3
History	
21—The United States since 1877.....	3
26—History of Latin-American Colonies..	3
Journalism	
3—Copy-reading and Head-writing.....	2
5—Problems of Reporting.....	2
7—Making a Country Newspaper.....	2
9—Editorials and Special Articles.....	3
Language.....	4
Philosophy	
1—Logic.....	3
9—Political and Social Ethics.....	3
7—Ethics.....	3
Political Science	
5—Constitutional Law.....	3
4—Municipal Government.....	3
6—International Law.....	3
Psychology	
1—Introduction to Psychology.....	3
Rhetoric	
6—Short Story Writing.....	3

Economics	Hours <sup>1</sup>
12b—Labor Problems.....	3
13—Economic History of Europe.....	3
English	
3—Milton.....	3
5—Shakespeare.....	3
24—Victorian Period.....	3
23—Magazine in America.....	2
52—Novelities of 19th Century.....	3
History	
17—History of Illinois.....	2
27—Latin-America.....	3
29—Far East.....	3
Journalism	
4—Make-Up and Editorial Practise.....	2
6—Newspaper Policies.....	2
10—Editorials and Special Articles.....	3
32—Law of the Press.....	2
Language.....	4
Philosophy	
2—Introduction to Philosophy.....	3
Political Science	
12—National Administration in U. S.....	3
28—Problems of Contemporary Politics...	3
34—Municipal Problems.....	3
Psychology	
2—General Psychology.....	3
Rhetoric	
7—Short Story Writing.....	3
17—Advanced Composition.....	3
Sociology	
9—Criminology.....	3

<sup>1</sup>Semester hours. For definition, see page 249.

## CURRICULUM PRELIMINARY TO LAW

It is recognized by the best authorities on legal education that professional studies in law should be preceded by a thoro course in the humanities and the sciences. As a foundation for the study and practise of law, the following subjects offered by this College are of special importance: English, with special reference to composition and public speaking; Latin and French; logic; constitutional and political history; political science; economics; sociology.

## Suggested two-year Curriculum Preparatory to Law

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Foreign language.....	4	Foreign language.....	4		
Hist. 2a—English History.....	3	Hist. 2b—English History.....	3		
Mathematics or science.....	5	Marh. 2—Trigonometry.....	3		
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 1—Rhetoric and Themes.....	3		
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Phys. Tr. 2—Gymnasium.....	1		
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$		
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$		
Total.....	17	Total.....	15		
SECOND YEAR					
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3		
Hist. 3a—History of the U. S.....	3	Eng. 20—Chief English Writers.....	4		
Mathematics or science or foreign languages..	5 or 4	Hist. 3b—History of the U. S.....	3		
Pol. Sci. 1—American Government.....	3	Philos. 1—Logic.....	3		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Pol. Sci. 3—State and Local Government....	3		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
Total.....	17 or 16	Mil. 4b—Military Theory.....	$\frac{1}{2}$		
		Total.....	17		

By the proper selection of his studies it is possible for a prospective law student to take both the degree in arts and the degree in law in six years. During his junior and senior years a student in the College of Liberal Arts and Sciences who has earned at least 30 hours in this college may take and count toward the degree of Bachelor of Arts not to exceed 30 hours of credit in law. *Students in this College are not permitted to begin this work in law until their junior year.* If the student is also a candidate for the degree of Bachelor of Laws or Doctor of Law, he must in each semester of his fourth year register both in the College of Law and in the College of Liberal Arts and Sciences.

The degree of Bachelor of Arts is conferred at the close of the fourth year of the combined course provided that all the requirements for the degree are met at that time.

Students admitted to this University from other institutions may count the above courses in law for the degree of Bachelor of Arts only on condition of completing at least 30 hours' work in residence in subjects offered by the College of Liberal Arts and Sciences.

## HOME ECONOMICS

The courses of instruction given in this department are planned to meet the needs of four classes of students: (a) those who desire a knowledge of the general principles and facts of home economics; (b) those who wish to make a specialty of home economics for the purpose of teaching the subject in secondary schools and colleges; (c) those who wish a knowledge of the principles underlying household administration and institutional management; (d) those who are interested in work in dietetics.

The suggested courses for teachers and for institutional workers are outlined below. The first three years of the course as outlined [for teachers give a scientific basis] for the work of the dietitian. Students who wish to be recommended by the department for teaching, whether in the schools or in hospitals, are advised to take Home Economics 13 and 11.

<sup>1</sup>Semester hours. For definition, see page 249.

Students who hold *scholarships in home economics* must make this subject their major along one of the lines indicated above and take each semester at least four hours in home economics or in subjects required for admission to courses in home economics.

Students whose major is home economics must also satisfy the requirements of the General Curriculum in the College of Liberal Arts and Sciences in so far as these are not covered in the courses given below, and should follow the directions for students in the General Curriculum, using the outlines below in connection with those directions.

### Suggested Curriculum for Teachers of Home Economics

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1 or Chem. 1a <sup>2</sup> —Inorganic Chemistry	5 or 3	Chem. 2a—Inorg. Chem. and Qual. Anal....	5	Chem. 2a—Inorg. Chem. and Qual. Anal....	5
Foreign language.....	4	Foreign language.....	4	Foreign language.....	4
Home Econ. 8—Art and Sanitation in Daily Life.....	2	Home Econ. 1 <sup>3</sup> —Principles of the Selection and Preparation of Food.....	3	Home Econ. 1 <sup>3</sup> —Principles of the Selection and Preparation of Food.....	3
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1	Phys. Ed. 7—Physical Training.....	1	Phys. Ed. 7—Physical Training.....	1
Phys. Ed. 9—Hygiene.....	1				
Total.....	16 or 14	Total.....	16	Total.....	16
<i>Alternatives</i>		<i>Alternatives</i>		<i>Alternatives</i>	
Lib. Sci. 12—General Reference.....	2	Home Econ. 7—Textiles.....	2	Home Econ. 7—Textiles.....	2
Home Econ. 7—Textiles.....	2	Home Econ. 21—Weaving.....	1	Home Econ. 21—Weaving.....	1
SECOND YEAR		SECOND YEAR		SECOND YEAR	
A. and D. 1—Freehand Drawing.....	3	A. and D. 12—Applied Design.....	2	A. and D. 12—Applied Design.....	2
Chem. 13a—Agricultural Analysis.....	5	Bot. 1—General Botany or Zool. 1—General Zoology.....	5	Bot. 1—General Botany or Zool. 1—General Zoology.....	5
Eng. 1—Survey of English Literature.....	4	Chem. 9—Organic Chemistry.....	3	Chem. 9—Organic Chemistry.....	3
Home Econ. 6—Economic Uses of Food.....	4	Chem. 9c—Organic Synthesis.....	2	Chem. 9c—Organic Synthesis.....	2
Phys. Ed. 8a—Physical Training.....	1	Eng. 2—Survey of English Literature.....	4	Eng. 2—Survey of English Literature.....	4
		Phys. Ed. 8b—Physical Training.....	1	Phys. Ed. 8b—Physical Training.....	1
Total.....	17	Total.....	17	Total.....	17
THIRD YEAR		THIRD YEAR		THIRD YEAR	
Educ. 1—Introduction to Education.....	4	Bact. 5—Bacteriology.....	5	Bact. 5—Bacteriology.....	5
Hist. 1a—Continental European Hist. or Hist. 3a—History of the U. S.....	4 or 3	Educ. 10—Technic of Teaching.....	3	Educ. 10—Technic of Teaching.....	3
Home Econ. 2—Home Architecture.....	3	Home Econ. 3—Home Decoration.....	3	Home Econ. 3—Home Decoration.....	3
Home Econ. 19—Dress Design.....	3	Home Econ. 5—Dietetics.....	3	Home Econ. 5—Dietetics.....	3
Physiol. 4—General Physiology.....	5	Home Econ. 12—Clothing.....	3	Home Econ. 12—Clothing.....	3
Total.....	19 or 18	Total.....	17	Total.....	17
<i>Alternative</i>		<i>Alternatives</i>		<i>Alternatives</i>	
Philos. 1—Logic.....	3	Econ. 1—Principles of Economics.....	5	Econ. 1—Principles of Economics.....	5
		Home Econ. 10—Organization and management of the Household.....	3	Home Econ. 10—Organization and management of the Household.....	3
		Hist. 1b—Continental European History or Hist. 3b—History of the U. S.....	4 or 3	Hist. 1b—Continental European History or Hist. 3b—History of the U. S.....	4 or 3
		Philos. 2—Introduction to Philosophy.....	3	Philos. 2—Introduction to Philosophy.....	3
FOURTH YEAR		FOURTH YEAR		FOURTH YEAR	
Educ. 6—Secondary Education.....	3	Home Econ. 11—Teachers' Course.....	3	Home Econ. 11—Teachers' Course.....	3
Home Econ. 4—Food and Nutrition.....	5	Hist. 1b—Continental European History or Hist. 3b—History of the U. S.....	4 or 3	Hist. 1b—Continental European History or Hist. 3b—History of the U. S.....	4 or 3
Home Econ. 13—Teachers' Course.....	3				
Home Econ. 34—Teachers' Course in Sewing	2				
Total.....	13	Total.....	7 or 6	Total.....	7 or 6
<i>Alternatives</i>		<i>Alternatives</i>		<i>Alternatives</i>	
English, advanced		English advanced		English advanced	
Home Econ. 18—Lunch Room Management.....	5	Home Econ. 14—Practise House.....	3	Home Econ. 14—Practise House.....	3
Pub. Sp. 1—Oral Expression.....	2	Home Econ. 35—Experimental Cookery.....	3	Home Econ. 35—Experimental Cookery.....	3
Sociol. 1—Principles of Sociology.....	3	Home Econ. 17—Problems in Textiles.....	3	Home Econ. 17—Problems in Textiles.....	3
		Pub. Sp. 2—Oral Expression.....	2	Pub. Sp. 2—Oral Expression.....	2
		Sociol. 7—Social Problems of the Rural Community.....	2	Sociol. 7—Social Problems of the Rural Community.....	2

<sup>1</sup>Semester hours. For definition see page 249.

<sup>2</sup>If Chemistry 1a is taken, a 2-hour elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high school physics is a prerequisite for Home Economics 1.



## Suggested Curriculum in Household Administration

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1 <sup>2</sup> or Chem. 1a—Inorganic Chemistry	5 or 3	Chem. 2a—Inorganic Chemistry and Qualitative Analysis			5
Foreign Language	4	Foreign Language			4
Home Econ. 8—Art and Sanitation in Daily Life	2	Home Econ. 1 <sup>3</sup> —Selection and Preparation of Food			3
Rhet. 1—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes			3
Phys. Ed. 7—Physical Training	1	Phys. Ed. 7—Physical Training			1
Phys. Ed. 9—Hygiene	1				
Total	16 or 14	Total			16
<i>Alternative</i>		<i>Alternatives</i>			
Lib. Sci. 12—General Reference	2	A. & D. 1—Freehand Drawing			3
		Econ. 22—Economic History of the U. S.			3
		Home Econ. 7—Textiles			2
SECOND YEAR		SECOND YEAR			
A. & D. 1—Freehand Drawing	3	A. & D. 12—Applied Design			2
Foreign Language or English 1	4	Bot. 1—General Botany or Zool. 1—General Zoology			5
Econ. 1—Principles of Economics	5	Foreign Language or English 2			4
Home Econ. 6—Economic Uses of Food	4	Home Econ. 7—Textiles			2
Phys. Ed. 8a—Physical Training	1	Phys. Ed. 8b—Physical Training			1
Total	17	Total			14
<i>Alternatives</i>		<i>Alternatives</i>			
Chem. 13a—Agricultural Analysis		Chem. 9—Organic Chemistry and			3
Hist. 1a—Continental European History or Hist. 3a—History of the U. S.	4 or 3	Chem. 9c—Organic Synthesis			2
		or Econ. 26—Economic Resources			5 or 3
		Hist. 1b—Continental European History or Hist. 3b—History of the U. S.			4 or 3
THIRD YEAR		THIRD YEAR			
Home Econ. 2—Home Architecture	3	Home Econ. 3—Home Decoration			3
Home Econ. 19—Dress Design	3	Home Econ. 5—Dietetics			3
Physiol. 4—General Physiology	5	Home Econ. 12—Clothing			3
Total	11	Total			9
<i>Alternatives</i>		<i>Alternatives</i>			
Bact. 5—Introduction to Bacteriology	5	Home Econ. 14—Practise House			3
English, advanced		Home Econ. 35—Experimental Cookery			3
Home Econ. 10—Organization and Management of the Household	3	Philos. 2—Introduction to Philosophy			3
Sociol. 1—Principles of Sociology	3	Pol. Sci. 3—State and Local Government			3
		Pol. Sci. 16—Government of Illinois			2
FOURTH YEAR		FOURTH YEAR			
<i>Suggested</i>		<i>Suggested</i>			
English, advanced		English, advanced			
Home Econ. 4—Food and Nutrition	5	Home Econ. 9—Problems in Extension			3
Home Econ. 13—Teachers' Course	3	Home Econ. 17—Problems in Textiles			3
Home Econ. 18—Lunch Room Management	5	Home Econ. 28—Organization and Management of the Household			2

## PRE-MEDICAL CURRICULUM

The requirements for admission to the College of Medicine are stated on page 76:

The following suggested two-year pre-medical curriculum covers the entrance requirement of the College of Medicine and includes additional courses in science which it is considered desirable for prospective medical students to take. This course of study is recommended to students who enter the College of Liberal Arts and Sciences to prepare themselves for the study of medicine.

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>If Chemistry 1a is taken, a 2-hour elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.

## Suggested Pre-Medical Curriculum

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1—General Chemistry.....	5	Chem. 2a—Inorganic Chemistry.....	5
Math. 4—Trigonometry.....	2	Zool. 2—Vertebrate Zoology.....	5
Zool. 1—General Zoology.....	5	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½
Mil. 1a—Military Drill.....	½	Mil. 2b—Military Theory.....	½
Mil. 1b—Military Theory.....	½		
Total.....	17	Total.....	15
SECOND YEAR			
Chem. 5a—Quantitative Analysis.....	5	Chem. 9, 9c—Organic Chemistry.....	5
German 1 or 4.....	4	German 3 or 5 or 6.....	4
Physics 7a—General Physics.....	2½	Physics 7b—General Physics.....	2½
Physics 8a—Laboratory.....	2½	Physics 8b—Laboratory.....	2½
Zool. 3—Microscopical Technics.....	3	Zool. 6—Vertebrate Organogeny.....	3
Mil. 3a—Military Drill.....	½	Mil. 4a—Military Drill.....	½
Mil. 3b—Military Theory.....	½	Mil. 4b—Military Theory.....	½
Total.....	18	Total.....	18

## Suggested Curriculum in Economic Entomology

For students wishing to prepare for state or national service in economic entomology or as teachers of entomology in agricultural colleges or universities, the following curriculum has been arranged to include the entomological, agricultural, and horticultural courses most essential to the end in view, together with the required subjects and the group electives necessary for the degree of Bachelor of Arts.

The principal features of the prescribed part of this curriculum are 25 hours of entomology, 15 hours of other biological subjects, 17 hours of agriculture and horticulture, 10 hours of chemistry, and 46 hours of courses required for graduation, group electives, and other miscellaneous courses. Seventeen hours of free electives remain after the courses of this prescribed list are provided for.

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
French 1a—Elementary French, or German		French 1b—Elementary French, or German	
1—Elementary German.....	4	3—Narrative Prose.....	4
Ent. 1a or 1b—Elementary Entomology, or		Ent. 4—Introduction to Economic Entomology.....	3
Ent. 3—Insects of the Vicinity.....	2 or 3	Zool. 1—General Zoology.....	5
Bot. 1—General Botany.....	5	Mil. 2a—Practical Instruction.....	½
Mil. 1a—Practical Instruction.....	½	Mil. 2b—Theoretical Instruction.....	½
Mil. 1b—Theoretical Instruction.....	½	Phys. Ed. 2—Gymnasium Practise.....	1
Phys. Ed. 1—Gymnasium Practise.....	½		
Phys. Ed. 1a—Personal Hygiene.....	½		
Total.....	16 or 17	Total.....	17
SECOND YEAR			
Engl. 20—Chief English Writers of the Nine-		Ent. 2—General Entomology.....	3
teenth Century.....	4	Ent. 8b—Advanced Economic Entomology...	3
Ent. 8a—Advanced Economic Entomology...	3	Agron. 25—Farm Crops.....	4
Hort. 1a—Elements of Horticulture.....	2	Ag. Ext. 3—Agricultural Extension Teachings	1
Mil. 3a—Practical Instruction.....	½	Hort. 1b—Elements of Horticulture.....	2
Mil. 3b—Theoretical Instruction.....	½	Mil. 4a—Practical Instruction.....	½
Lib. Sci. 12—General Reference.....	2	Mil. 4b—Theoretical Instruction.....	½
Total.....	12	Total.....	14
Electives Recommended		Electives Recommended	
German 4 <sup>2</sup> —Prose Reading.....	4	German 6 <sup>3</sup> —Scientific German.....	4
Zool. 16—Economic Ornithology.....	2	Ent. 16—Apiculture.....	2
Bot. 4d—Trees and Shrubs of the Campus...	3	Zool. 4—Invertebrate Morphology.....	3
Geol. 14—Weather and Climate.....	3	Pub. Sp. 2—Extemporaneous Speaking.....	2
Pub. Sp. 1—Oral Expression.....	2		

<sup>1</sup>Semester hours. For definition see page 249.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

<sup>3</sup>If the student has offered two units of French for entrance and has elected German 1 and German 2 in his freshman year, he should elect a second year of German at this time.

## THIRD YEAR

Hist. 3a—History of the United States.....	3
Psych. 1—Introduction to Psychology.....	4
Chem. 1—Inorganic Chemistry.....	5
Ent. 13—Insects and Disease.....	2

Total..... 14

*Electives Recommended*

Pol. Sci. 1—American National Government..	3
Econ. 1—Principles of Economics.....	5
Bot. 23—Plant Ecology.....	3
Photog. 1—The Principles and Practise of Photography.....	0
Ent. 7a—Systematic Entomology.....	5
Ent. 14—Medical Entomology.....	2
Phys. 4—General Physiology, Chemical and Experimental.....	5

Hist. 3b—History of the United States.....	3
Econ. 2—Principles of Economics.....	3
Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Ent. 7b—Systematic Entomology.....	5

Total..... 16

*Electives Recommended*

Pol. Sci. 3—State and Local Government.....	3
Hist. 17—The History of Illinois.....	2
Zool. 9—Animal Ecology.....	3
Photog. 2—The Principles and Practise of Photography.....	0

## FOURTH YEAR

Bot. 7a—Plant Pathology.....	5
Chem. 13a—Elementary Quantitative Analysis.....	5
Ent. 10a—Advanced Systematic Entomology.....	3

Total..... 13

*Electives Recommended*

Ent. 18a—Insect Taxonomy.....	5
Ent. 6a—Thesis Investigation.....	5
Zool. 11—Experimental Ecology and Geography.....	2 or 4
Bact. 5—Introductory Bacteriology.....	5
Math. 2—College Algebra.....	3

Philos. 1—Logic.....	3
Hort. 7—Spraying.....	3
Agro. 12—Soil Fertility, Fertilizers, and Rotations.....	5

Total..... 11

*Electives Recommended*

Ent. 18a—Insect Taxonomy.....	5
Ent. 10b—Advanced Systematic Entomology.....	3
Ent. 6b—Thesis Investigation.....	5
Zool. 5—Heredity and Evolution.....	2
Math. 23—Averages, etc.....	3
Philos. 9—Political and Social Ethics.....	3

## Curriculums in Chemistry and Chemical Engineering

Students who follow the General Curriculum in the College of Liberal Arts and Sciences with chemistry as a major subject are eligible for the degree of Bachelor of Arts.

For the more specialized training of the chemist, the following curriculums, largely prescribed, have been arranged. Each requires a maximum total of 136 hours, and leads to the degree of Bachelor of Science.

Attention is called to the fact that the schedules for the first and second years in both chemistry and chemical engineering are the same.

Preliminary preparation in German or French equivalent to two years of high school work or one year of university work is prescribed. The total language requirement for graduation, including courses offered for entrance, must be equivalent to two years of University German or French. Prospective students are advised to offer one unit of physics as a part of the electives of Group B.

Students registering either in the curriculum in chemistry or in the curriculum in chemical engineering must offer 1 unit of high-school chemistry and  $\frac{1}{2}$  unit of advanced algebra for admission to these curriculums. University credit in Chemistry 1 (five hours) is acceptable in lieu of one unit of entrance chemistry.

## FIRST YEAR, BOTH CURRICULUMS

## FIRST SEMESTER

	Hours <sup>1</sup>
Chem. 1a—Inorganic Chemistry.....	3
Math. 2—College Algebra.....	3
Math. 4—Plane Trigonometry.....	2
German or French.....	4
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Total.....	17

## SECOND SEMESTER

	Hours <sup>1</sup>
Chem. 3a—Inorganic Chemistry and Qualitative Analysis.....	5
Math. 6—Analytical Geometry.....	4
German or French.....	4
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Drill Regulations.....	$\frac{1}{2}$
Total.....	18

<sup>1</sup>Semester hours. For definition see page 249.

## SECOND YEAR, BOTH CURRICULUMS

Chem. 3a—Quantitative Analysis.....	5	Chem. 3b—Advanced Analytical Chemistry... 5	
Math. 8a—Differential Calculus.....	3	Math. 8b—Integral Calculus.....	3
Phys. 1a—General Physics.....	3	Phys. 1b—General Physics.....	2
Phys. 3a—Physical Measurements.....	2	Phys. 3b—Physical Measurements.....	2
Geol. 20—General Mineralogy.....	5	Engl. 20 or Hist. 3b	
Mil. 3a—Military Drill.....	$\frac{1}{2}$	or	
Mil. 3b—Military Theory.....	$\frac{1}{2}$	T. & A. M. 20a.....	3
		Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	17	Total.....	16

## Curriculum in Chemistry, Third and Fourth Years

In the following schedule of courses, after the second year there are offered certain *prescribed subjects* required of all students and in addition five *group options*, the last four of which are outlined for the purpose of affording systematic training along certain important lines of applied chemistry. The first option, A, is intended for those students who wish to place chief emphasis on the fundamental branches of chemistry as a science and for those students who desire a combination of subjects not outlined in the other four groups. Students in option A must submit to their adviser at the beginning of the junior year an outline of their proposed program for the junior and senior years. Approval of such an outline must be secured from the adviser before registering. At least 12 hours of the electives under option A must be in chemistry and it is recommended that they be selected as far as possible from more advanced courses in inorganic, analytical, organic, and physical chemistry. In all groups in the junior and senior years the subjects to be taken outside of the department, including electives, must amount to at least ten hours including a course in the theory of economics. Students who have presented German for entrance should take French 1a and 1b among the electives of the junior year; those who have offered French should take German 1 and 3.

The groups provided for, with the letter used to designate each group, are as follows:

- A. General
- B. Electrochemical
- C. Industrial
- D. Food and Sanitation
- E. Physiological

## THIRD YEAR

<i>Prescribed for all Groups</i>		<i>Prescribed for all Groups</i>	
Chem. 14a—Organic Chemistry.....	4	Chem. 14b—Organic Chemistry.....	2
Chem. 14c—Organic Synthesis.....	2	Chem. 14d—Organic Synthesis.....	2
Chem. 92a—Journal Meeting.....	1	Chem. 92b—Journal Meeting.....	1
Chem. 65—Gas and Fuel Analysis.....	2	Chem. 31—Physical Chemistry.....	3
		Chem. 33—Physical Chemistry Laboratory..	2
		Chem. 90—Inspection Trip.....	0
		Econ. 2—Principles of Economics.....	3
Total.....	9	Total.....	13

*Group Options*

A—General, Electives.....	8
B—Electrochemical	
B. B. 8—Electric Currents and Apparatus	3
B. B. 68—Electrical Engineering Laboratory.....	1
Electives.....	4
C—Industrial	
B. B. 8—Electric Currents and Apparatus	3
B. B. 68—Electrical Engineering Laboratory.....	1
Electives.....	4
D. and E.—Food and Physiological	
Bact. 5—Introductory Bacteriology.....	5
Electives.....	3

*Group Options*

A—General, Electives.....	4
B—Electrochemical, Electives.....	4
C—Industrial, Electives.....	4
D and E—Food and Physiological, Electives..	4

\* T. & A. M. 20 required for curriculum for Chemical Engineers.

\* 12 hours of the total electives of the third and fourth years in Group Option A must be in chemistry; 10 hours must be taken outside of the Department.

## FOURTH YEAR

Prescribed for all Groups:

Chem. 11a—Research .....	3
Chem. 93a—Journal Meeting .....	1
Chem. 93—History of Chemistry .....	2

Total..... 6

## Group Options:

A—General Electives .....	3
B—Electrochemical .....	3
Chem. 35—Electrochemistry .....	3
Chem. 35—Experimental Problems in Physical and Electrochemistry .....	4
Phys. 4a—Electrical and Magnetic Measurements .....	2
C—Industrial .....	3
Chem. 7—Metallurgy .....	3
Chem. 35—Electrochemistry .....	3
Chem. 69—Met. Lab. and Assaying .....	2
Electives .....	1
D—Food .....	3
Chem. 25—Food Analysis .....	3
Chem. 21—Qual. Organic Analysis .....	2
Electives .....	2
E—Physiological .....	3
Chem. 25—Physiological Chem. .....	3
Chem. 21—Qual. Organic Analysis .....	2
Electives .....	2

Prescribed for all Groups:

Chem. 6—Chemical Technology .....	3
Chem. 11a—Research .....	3
Chem. 93a—Journal Meeting .....	1
Chem. 93—Inspection Trip .....	0

Total..... 6

## Group Options:

A—General Electives .....	3
B—Electrochemical Electives .....	3
C—Industrial .....	3
Chem. 63—Industrial Laboratory .....	3
Chem. 71 .....	3
Electives .....	3
D—Food .....	3
Chem. 26—Pharmaceutical Chemistry .....	3
Electives .....	3
E—Physiological .....	3
Chem. 106 .....	3
Electives .....	3

## Curriculum in Chemical Engineering, Third and Fourth Years

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four-year curriculum in chemistry and related engineering subjects has been arranged. The degree given is that of Bachelor of Science in chemical engineering.

It is advised that students intending to take this curriculum be prepared to offer two units of Manual Training, including mechanical drawing, for entrance or arrange to take equivalent courses in the University.

## THIRD YEAR

Chem. 14a—Organic Chemistry .....	4
Chemistry 14c—Organic Synthesis .....	2
Chem. 93a—Journal Meeting .....	1
E. E. 4—Electrical Currents and Apparatus .....	3
E. E. 64—Electrical Engineering Laboratory .....	2
T. and A. M. 25—Analytical Mechanics .....	2
T. and A. M. 25—Resistance of Materials .....	4
Total.....	17

Chem. 14c—Organic Chemistry .....	3
Chemistry 14c—Organic Synthesis .....	2
Chem. 33—Physical Chemistry .....	3
Chem. 35—Physical Chemistry Laboratory .....	3
Chem. 93a—Journal Meeting .....	1
Chem. 6—Chemical Technology .....	3
Chem. 63—Industrial Chemistry Laboratory .....	3
Chem. 93—Inspection Trip .....	0
Total.....	21

## FOURTH YEAR

Chem. 7—Metallurgy of Iron and Steel .....	3
Chem. 11a—Research .....	3
Chem. 35—Electrochemistry .....	3
Chem. 43—Technical Gas and Fuel Analysis .....	3
Chem. 69—Assaying .....	2
Chem. 93—Journal Meeting .....	1
M. E. 1, 2, or 3—Steam Engineering .....	3
Total.....	17

Chem. 11a—Research .....	3
Chem. 93a—Journal Meeting .....	1
M. E. 61, 62, or 64—Mechanical Engineering Laboratory .....	3 or 3
Chemistry 63—Inspection Trip .....	0
Electives .....	3 or 3
Total.....	17 or 19

## Curriculum in Pharmaceutical Chemistry

For the benefit of students who are graduates of recognized colleges of pharmacy a new option in pharmaceutical chemistry leading to the degree of Bachelor of Science in Chemistry is offered.

The credits to be allowed on transfer are based upon the course of study of the University of Illinois School of Pharmacy.

90 hours of the total electives of the third and fourth years in Group Option A must be in chemistry 30 hours must be taken outside of the Department.

For entrance to the School of Pharmacy fifteen units of high-school work are required. For the degree of Graduate in Pharmacy, the students attend for two years of thirty-six weeks each. The course of study is the equivalent of fifty-eight University hours. For the degree of Pharmaceutical Chemist, an additional year of thirty-six weeks is taken and the course of study for this year is equivalent to twenty-five University hours.

The following option in pharmaceutical chemistry leads to the degree of B.S. in Chemistry.

1. Persons holding the degree of Graduate of Pharmacy from a college of pharmacy holding membership in the American Conference of Pharmaceutical Faculties, who can present fifteen units of high-school work for entrance, will be allowed forty hours of University credit in the chemistry curriculum.

2. In addition to the forty hours of credit in order to take up the work of the third year a student must offer the following subjects from the University of Illinois or elsewhere:

College Algebra.....	3 hours
Trigonometry.....	2 hours
Analytical Geometry.....	4 hours
Calculus.....	6 hours
Physics.....	9 hours
Rhetoric and Composition.....	6 hours
French or German (preceded by two units' entrance credit in the same language).....	8 hours
Total.....	38 hours

Such students will have junior standing.

3. The work of the junior and senior years should include the following courses:

Chemistry 14b, Advanced Organic Chemistry Lectures.....	2 hours
Chemistry 14c and 14d, Organic Preparations.....	4 hours
Chemistry 5b, Advanced Quantitative Analysis.....	5 hours
Chemistry 31, Physical Chemistry.....	3 hours
Chemistry 33, Physical Chemical Measurements.....	2 hours
Chemistry 95, History of Chemistry.....	2 hours
Chemistry 6, Industrial Chemistry.....	3 hours
Chemistry 92a, 92b, 93a, 93b, Journal Meeting.....	4 hours
Chemistry 11a, 11b, Thesis.....	10 hours
Electives in Chemistry.....	12 hours
Non-chemical electives.....	5 hours
Military Training and Physical Education or electives.....	6 hours

Total.....58 hours

Students holding the degree of Pharmaceutical Chemist will be allowed eighteen hours of advanced standing in lieu of the eighteen hours' chemical and non-chemical electives of the last two years.

## RECOGNITION OF THE UNIVERSITY OF ILLINOIS IN GREAT BRITAIN AND IRELAND

### The University of Oxford

The University of Oxford on October 24, 1916, passed the following decrees:

1. That any member of the University of Illinois who shall have pursued at that University a course of study in the College of Liberal Arts and Sciences extending over two years at the least, and shall have received an average grade of 80 per cent. or higher, in at least 65 semester hours, shall be eligible for admission to the status and privileges of a Junior Foreign Student.

2. That any member of the University of Illinois who shall have pursued at that University a course of study in the College of Liberal Arts and Sciences, extending over three years at the least, and shall have received an average grade for three consecutive years of 86 per cent. or higher, shall be eligible for admission to the status and privileges of a Senior Foreign Student.

3. That any member of the University of Illinois who shall have passed Greek 3 and Greek 4 with a grade of not less than 80 per cent, shall be deemed to have shown a sufficient knowledge of Greek as required by the provisions of Statt. Tit. II, Sect. IX, "On Students from Foreign Universities."

**The University of Edinburgh**

The University of Illinois has been recognized by the Edinburgh University Court under Section XX of the Arts Ordinance of that University, which reads as follows:

The Senatus may accept, under such conditions as they may from time to time prescribe, attendance at Universities specially recognized by the University Court, and the examinations passed therein, provided always that every student whose attendance or examinations are thus accepted, shall attend qualifying classes for at least two academical years in the University of Edinburgh, and shall pass the examinations of that University in the subjects studied therein.

Information in regard to the regulations under the above Ordinance may be obtained at the Registrar's Office.

**The Queen's University of Belfast**

The Academic Council of the Queen's University of Belfast has voted the following instruction:

The Dean is instructed to grant exemption from a year's attendance to students of the University of Illinois who have pursued at that University a course of study in the College of Liberal Arts and Science extending over two years at the least and shall have received an average grade of 80 per cent or higher in at least 65 semester hours.

**Other British and Irish Universities**

Most of the other universities of Great Britain and Ireland make general provisions for the admission of foreign students to advanced standing or graduate study, under which students from the University of Illinois may, in general, expect to receive recognition, upon individual application, substantially equivalent to that provided for in the regulations of the Universities of Oxford, Edinburgh, and Belfast, as noted above.

# THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

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For a description of the *building* used by this College, see page 52; for *museum and collections* belonging to it, see page 63; for *societies and clubs* auxiliary to its curriculums, see page 101; for *fees*, see page 111.

## ORGANIZATION

The College of Commerce and Business Administration was established by the Board of Trustees in April, 1915, and opened the following September. The new college was given control of all the work formerly conducted by the department of economics, including the courses in business administration. The work of the college is divided into three separate departments as follows: economics, including finance and statistics; business organization and operation, including accountancy and business law; and transportation.

## PURPOSE

The purpose of the College of Commerce and Business Administration is to give its students a knowledge of the principles underlying all lines of business with special training for particular business callings. The College does not attempt to prepare students for clerical and similar occupations as employees, but does endeavor to lay a broad foundation on which successful careers in managerial and administrative positions and as proprietors may be built. To this end courses in economics, accountancy, business organization and operation, banking, commerce, railway administration, and industry are offered in combination with courses in language and literature, the social sciences, law, mathematics, and the natural sciences.

## ADMISSION

See the statement of the entrance requirements of the University, pages 68-75.

## SPECIAL STUDENTS

See the statement of the general regulations of the University in regard to special students, page 72.

## REQUIREMENTS FOR GRADUATION

Students who graduate from the College of Commerce and Business Administration are awarded the degree of Bachelor of Science.

The requirements for graduation are as follows:

1. A candidate must comply with the University requirements as to residence and registration, and secure credit amounting to 130 hours, including the general requirements of *Rhetoric 1-2, 6 hours*; and *Physical Training 1, 1a, and 2, 2 hours*, for men, and *7a-7b and 9, 3 hours*, for women; and *Military Science 1a, 2a, 3a, 4a and 1b, 2b, 3b, 4b, 4 hours*, for men. Students who elect the Reserve Officers' Training Corps must also take *Military Science 5a, 6a, 7a, 8a, and 5b, 6b, 7b, 8b, 4 hours*.

2. A candidate must secure credit in the subjects listed as *prescribed* in his chosen curriculum.



3. Of the electives allowed, 8 hours must be either in English literature or in foreign language in all curriculums, but prescribed courses in either of these subjects may be counted in meeting this requirement.

4. In the General Business Curriculum, the Curriculums in Banking, Insurance, Accountancy, Railway Administration, Commerce and Law, and the Curriculum for Commercial and Civic Secretaries, 12 hours must be elected from the following group of subjects: History, political science, philosophy, psychology, and sociology, provided that not less than six hours in any one subject may be counted in fulfilling this requirement; but prescribed courses in any of these subjects may be counted.

5. Ten hours must be elected from the following group of subjects: Chemistry, mathematics, and physics, provided that not less than 5 hours in any one subject may be counted in fulfilling this requirement; but prescribed courses in any of these subjects may be counted.

6. Free electives sufficient to make up the 130 hours required for graduation may be selected from any department of the University. Such electives must, however, be chosen with a view to promoting the specific object of the curriculum pursued and must have the approval of the Dean of the College.

### THE CURRICULUMS

The curriculums in commerce and business administration are: General business, commercial and civic secretarial service, banking, insurance, accountancy, general railway administration, railway transportation, commercial teaching, foreign commerce, industrial administration, and commerce and law. The subjects prescribed for graduation in each curriculum are listed in the following outlines. These subjects are in general arranged in sequence and should be taken in the order given. In addition to the prescribed subjects sufficient electives must be taken each semester to make up a minimum of 15 hours, but not to exceed a maximum of 18 hours of work. In choosing electives the attention of students is called to provisions 3, 4, and 5 of the above statement of the requirements for graduation. It is advisable that the electives there mentioned be taken as far as possible in the first two years in order to leave more opportunity for free electives in the last two years.

#### General Business Curriculum

##### FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3
Econ. 26—Economic Resources.....	3	Econ. 22—Economic History of the United States.....	3
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Phys. Ed. 2—Gymnasium.....	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Electives.....	4-7	Electives.....	4-7
Total.....	15-18	Total.....	15-18

##### SECOND YEAR

	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3
Rhet. 10—Business Writing.....	2	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Electives.....	8-11
Electives.....	4-7		
Total.....	15-18	Total.....	15-18

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Law 1b—Commercial Law.....	3
Bus. Law 1a—Commercial Law.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 28—Domestic Commerce.....	3	Econ. 10—Corporation Management and Finance.....	3
Trans. 1—Transportation System of the United States.....	3	Rhet. 22—Summarizing and Briefing.....	2
Electives.....	3-6	Trans. 12—Freight Shipment.....	2
		Electives.....	3-6
Total.....	15-18	Total.....	15-18

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2	Bus. Org. and Op. 8—Advertising.....	2
Econ. 5—Public Finance.....	3	Econ. 31—Organization of Foreign Commerce	3
Electives.....	10-13	Electives.....	10-13
Total.....	15-18	Total.....	15-18

## Curriculum for Commercial and Civic Secretaries

The first and second years of this curriculum are the same as in the General Business Curriculum except that Political Science 1—American Government (3)—is prescribed in the first semester of the second year, while Rhetoric 10—Business Writing (2)—is transferred to the second semester.

## FIRST SEMESTER

## THIRD YEAR

## SECOND SEMESTER

	Hours <sup>1</sup>		Hours <sup>1</sup>
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 28—Domestic Commerce.....	3	Econ. 10—Corporation Management and Finance.....	3
Pol. Sci. 4—Municipal Government.....	3	Rhet. 22—Summarizing and Briefing.....	2
Sociol. 8—Charities.....	3	Trans. 12—Freight Shipment.....	2
Electives.....	3-6	Electives.....	6-9
Total.....	15 or 18	Total.....	15-18

## FOURTH YEAR

Bus. Law 1a—Commercial Law.....	3	Bus. Law 1b—Commercial Law.....	3
Econ. 5—Public Finance.....	3	Bus. Org. and Op. 8—Advertising.....	2
Electives.....	9-12	Bus. Org. and Op. 9—Commercial and Civic Organizations.....	1
		Hort. 10b—Town Improvement.....	2
		Electives.....	7-10
Total.....	15-18	Total.....	15-18

## Curriculum in Banking

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3)—is prescribed in the first semester of the first year.

## FIRST SEMESTER

## THIRD YEAR

## SECOND SEMESTER

	Hours <sup>1</sup>		Hours <sup>1</sup>
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Bus. Law 1a—Commercial Law.....	3	Bus. Law 1b—Commercial Law.....	3
Econ. 5—Public Finance.....	3	Econ. 10—Corporation Management and Finance.....	3
Econ. 28—Domestic Commerce.....	3	Math. 23—Mathematics of Investment.....	3
Electives.....	3-6	Electives.....	4-7
Total.....	15-18	Total.....	15-18

## FOURTH YEAR

Econ. 9—Practical Banking.....	2	Econ. 4—Financial History of the United States.....	3
Electives.....	13-16	Econ. 8—The Money Market.....	2
		Econ. 31—Organization of Foreign Commerce	3
		Electives.....	7-10
Total.....	15-18	Total.....	15-18

<sup>1</sup>Semester hours. For definition, see page 249.

## Curriculum in Insurance

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3		
Econ. 26—Economic Resources.....	3	Econ. 22—Economic History of the United States.....	3		
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	3		
Math. 4—Trigonometry.....	3	Rhet. 2—Rhetoric and Themes.....	3		
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1		
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1/2		
Mil. 1a—Military Drill.....	1/2	Mil. 2b—Military Theory.....	1/2		
Mil. 1b—Military Theory.....	1/2	Electives.....	0-2		
Electives.....	0-2				
Total.....	16-18	Total.....	16-18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours <sup>1</sup>				
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3	Bus. Law 1a—Commercial Law.....	3
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3	Bus. Org. and Op. 1—Business Organization and Operation.....	3
Math. 8—Differential and Integral Calculus..	5	Rhet. 10—Business Writing.....	2	Econ. 5—Public Finance.....	3
Mil. 3a—Military Drill.....	1/2	Mil. 4a—Military Drill.....	1/2	Econ. 28—Domestic Commerce.....	3
Mil. 3b—Military Theory.....	1/2	Mil. 4b—Military Theory.....	1/2	Electives.....	3-6
Electives.....	1-4	Electives.....	6-9		
Total.....	15-18	Total.....	15-18	Total.....	15-18
THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
	Hours <sup>1</sup>				
Bus. Law 1a—Commercial Law.....	3	Bus. Law 1b—Commercial Law.....	3	Bus. Org. and Op. 7—Salesmanship.....	2
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2	Econ. 33—Economics of Insurance.....	2
Econ. 5—Public Finance.....	3	Econ. 10—Corporation Management and Finance.....	3	Econ. 9—Practical Banking.....	2
Econ. 28—Domestic Commerce.....	3	Math. 23—Mathematics of Investment.....	3	Math. 31—Actuarial Theory.....	3
Electives.....	3-6	Electives.....	4-7	Electives.....	8-11
Total.....	15-18	Total.....	15-18	Total.....	15-18
FOURTH YEAR		FIFTH YEAR		SIXTH YEAR	
	Hours <sup>1</sup>				
Bus. Org. and Op. 7—Salesmanship.....	2	Bus. Org. and Op. 8—Advertising.....	2	Acc'y 3a—Accounting Problems and Auditing	3
Econ. 33—Economics of Insurance.....	2	Econ. 34—Property Insurance.....	2	Bus. Law 1a—Commercial Law.....	3
Econ. 9—Practical Banking.....	2	Math. 31—Actuarial Theory.....	3	Bus. Org. and Op. 1—Business Organization and Operation.....	3
Math. 31—Actuarial Theory.....	3	Electives.....	8-11	Econ. 28—Domestic Commerce.....	3
Electives.....	6-9			Electives.....	3-6
Total.....	15-18	Total.....	15-18	Total.....	15-18

## Curriculum in Accountancy

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3)—is prescribed in the first semester of the first year.

FIRST SEMESTER		THIRD YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Acc'y 3a—Accounting Problems and Auditing	3	Acc'y 3b—Accounting Problems and Auditing	3		
Bus. Law 1a—Commercial Law.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2		
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Law 1b—Commercial Law.....	3		
Econ. 28—Domestic Commerce.....	3	Econ. 10—Corporation Management and Finance.....	3		
Electives.....	3-6	Math. 23—Mathematics of Investment.....	3		
		Electives.....	1-4		
Total.....	15-18	Total.....	15-18		
FOURTH YEAR		FIFTH YEAR		SIXTH YEAR	
	Hours <sup>1</sup>				
Acc'y 5a—C. P. A. Problems.....	3	Acc'y 5b—C. P. A. Problems.....	3		
Econ. 9—Practical Banking.....	2	Electives.....	12-15		
Econ. 11—Industrial Consolidations.....	3				
Electives.....	7-10				
Total.....	15-18	Total.....	15-18		

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## Curriculum in Railway Administration

The first year of this curriculum is the same as the first year of the Curriculum in Insurance.

FIRST SEMESTER		SECOND YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3	Econ. 3—Money and Banking	3
Econ. 1—Principles of Economics	5	Rhet. 10—Business Writing	2	Trans. 8—Railway Working	2
Rhet. 10—Business Writing	2	Mil. 4a—Military Drill	1½	Mil. 4b—Military Theory	1½
Trans. 7—Railway Organization	2	Electives	6-9		
Mil. 3a—Military Drill	1½				
Mil. 3b—Military Theory	1½				
Electives	2-5				
Total	15-18			Total	15-18
THIRD YEAR					
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Law 1b—Commercial Law	3		
Bus. Law 1a—Commercial Law	3	Trans. 2—Transportation Policy in Europe and the United States	3		
Trans. 1—Transportation System of the United States	3	Trans. 22—Railway Train Service or			
Trans. 13—Railway Traffic Administration or		Trans. 26—Economics of Railway Location and Maintenance	3		
Trans. 17—Railway Terminal Management	3	Electives	6-9		
Electives	3-6				
Total	15-18			Total	15-18
FOURTH YEAR					
Econ. 12a—Labor Problems	3	Econ. 10—Corporation Management and Finance	3		
Econ. 28—Domestic Commerce	3	Econ. 12b—Labor Problems	3		
Trans. 17—Railway Terminal Management or		Trans. 26—Economics of Railway Location and Maintenance or			
Trans. 13—Railway Traffic Administration	3	Trans. 22—Railway Train Service	3		
Electives	6-9	Electives	6-9		
Total	15-18			Total	15-18

## Curriculum in Railway Transportation

A curriculum designed for those planning to enter the transportation department of the railways.

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Rhet. 2—Rhetoric and Themes	3
Math. 4—Trigonometry	2	Math. 6—Analytic Geometry	5
Rhet. 1—Rhetoric and Themes	3	Phys. Ed. 1—Gymnasium	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	1½
Mil. 1a—Military Drill	1½	Mil. 2b—Military Theory	1½
Mil. 1b—Military Theory	1½	Electives	0-1
Electives	0-1		
Total	17-18	Total	18
SECOND YEAR			
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Math. 8a—Differential and Integral Calculus	3	Math. 8a—Differential and Integral Calculus	3
Physics 1a—General Physics	3	Physics 1b—General Physics	2
Physics 3a—Physical Measurements	2	Physics 3b—Physical Measurements	2
Trans. 7—Railway Organization	2	Rhet. 10—Business Writing	2
Mil. 3a—Military Drill	1½	Trans. 8—Railway Working	2
Mil. 3b—Military Theory	1½	T. and A. M. 20—Analytical Mechanics	3
Electives	0-2	Mil. 4a—Military Drill	1½
		Mil. 4b—Military Theory	1½
Total	16-18	Total	18

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Consult Announcement of Courses, September, 1920, for the re-arrangement of these courses.

<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## THIRD YEAR

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Trans. 1—Transportation System of the United States.....	3
Trans. 13—Railway Traffic Administration or Trans. 17—Railway Terminal Management.....	3
Electives.....	3-6

Total..... 15-18

Bus. Law 1b—Commercial Law.....	3
C. E. 76—Surveying.....	2
M. E. 2—Steam Engineering.....	3
Trans. 2—Transportation Policy in Europe and the United States.....	3
Trans. 22—Railway Train Service or Trans. 26—Economics of Railway Location and Maintenance.....	3
Electives.....	1-4

Total..... 15-18

## FOURTH YEAR

Econ. 12a—Labor Problems.....	3
E. E. 11—Direct Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1
M. E. 61—Power Measurement.....	2
Trans. 17—Railway Terminal Management or Trans. 13—Railway Traffic Administration..	3
Electives.....	3-6

Total..... 15-18

E. E. 12—Alternating Current Apparatus...	3
E. E. 62—Alternating Current Laboratory...	1
Econ. 10—Corporation Management and Finance or Econ. 12b—Labor Problems.....	3
Trans. 26—Economics of Railway Location and Maintenance or Trans. 22—Railway Train Service.....	3
Electives.....	5-8

Total..... 15-18

## Curriculum for Commercial Teachers

The first and second years are the same as in the General Business Curriculum except that foreign language is prescribed in the first year, and Psychology 1—Introduction to Psychology (3), and Psychology 2—General Psychology (3)— in the second year.

## THIRD YEAR

## FIRST SEMESTER

Hours<sup>1</sup>

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Educ. 1—Introduction to Education.....	4
Pol. Sci. 1—American Government.....	3
Trans. 1—Transportation System of the United States.....	3
Electives.....	0-2

Total..... 16-18

## SECOND SEMESTER

Hours<sup>2</sup>

Bus. Law 1b—Commercial Law.....	3
Econ. 10—Corporation Management and Finance.....	3
Educ. 2—History of Education.....	3
Pol. Sci. 3—State and Local Government....	3
Trans. 12—Freight Shipment.....	2
Electives.....	2-4

Total..... 15-18

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 28—Domestic Commerce.....	3
Educ. 15—Social Education.....	3
Electives.....	7-10

Total..... 15-18

Bus. Org. and Op. 8—Advertising.....	2
Econ. 29—Foreign Commerce or Econ. 31—Organization of Foreign Commerce	3
Educ. 10—The Technic of Teaching.....	3
Electives.....	7-10

Total..... 15-18

## Curriculum in Foreign Commerce

The first and second years of this curriculum are the same as in the General Business Curriculum except that foreign language is prescribed throughout both years.

## THIRD YEAR

## FIRST SEMESTER

Hours<sup>2</sup>

Bus. Law 1a—Commercial Law.....	3
Bus. Org. and Op. 1—Business Organization and Operation.....	3
Econ. 28—Domestic Commerce.....	3
Foreign Language.....	2 or 3
Hist. 3a—History of the United States.....	3
Electives.....	0-3

Total..... 15-18

## SECOND SEMESTER

Hours<sup>2</sup>

Bus. Law 1b—Commercial Law.....	3
Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Econ. 29—Foreign Commerce.....	3
Econ. 10—Corporation Management and Finance.....	3
Foreign Language.....	2 or 3
Hist. 3b—History of the United States.....	3
Electives.....	0-1

Total..... 17-18

<sup>1</sup> Consult Announcement of Courses, September, 1920, for the rearrangement of these courses.

<sup>2</sup> Semester hour For definition, see page 249.

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2	Econ. 8—The Money Market.....	2
Econ. 9—Practical Banking.....	2	Econ. 31—Organization of Foreign Commerce.....	3
Advanced History.....	3	Pol. Sci. 7—American Diplomacy.....	3
Pol. Sci. 6—International Law.....	3	Advanced History.....	3
Electives.....	5-8	Electives.....	4-7
Total.....	15-18	Total.....	15-18

## Curriculum in Industrial Administration

The following curriculum is intended to meet the needs of commerce students planning to enter the administrative or selling departments of industrial plants. To the usual courses in economics, accounting, etc., are added certain groups of technical courses offered by other colleges of the University. For the present four such groups have been arranged, as follows: Group A, for those interested in the machine industries; Group B, the electrical industries; Group C, the building trades; Group D, the chemical industries. The student may select the one of these groups that will be most advantageous to him in his future work, but he is required to take all the courses listed in the chosen group. A student electing the chemical industries group is required to take Econ. 26—Economic Resources (3) and Econ. 22—Economic History of the United States (3), instead of G. E. D. 1—Elements of Drafting (4) and G. E. D. 2—Descriptive Geometry (4), in the first year; and Chem. 1 or 1a—Inorganic Chemistry (5 or 3), instead of Economics 22—Economic History of the United States (3) and T. and A. M. 20—Analytical Mechanics (3), in the second year.

## FIRST SEMESTER

	Hours <sup>1</sup>
Acc'y 1a—Principles of Accounting.....	3
G. E. D. 1—Elements of Drafting.....	4
Math. 2—College Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Electives.....	0-1
Total.....	17-18

## FIRST YEAR

## SECOND SEMESTER

	Hours <sup>1</sup>
Acc'y 1b—Principles of Accounting.....	3
G. E. D. 2—Descriptive Geometry.....	4
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Electives.....	0-1
Total.....	17-18

## SECOND YEAR

Econ. 1—Principles of Economics.....	5
Math. 8a—Differential and Integral Calculus.....	5
Phys. 1a—General Physics.....	3
Phys. 3a—Physical Measurements.....	2
Rhet. 10—Business Writing.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$
Min. 3b—Military Theory.....	$\frac{1}{2}$
Total.....	18

Econ. 3—Money and Banking.....	3
Math. 8b—Differential and Integral Calculus.....	3
Phys. 1b—General Physics.....	2
Phys. 3b—Physical Measurements.....	2
Econ. 22—Economic History of the United States.....	3
T. and A. M. 20—Analytical Mechanics.....	3
Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 4b—Military Theory.....	$\frac{1}{2}$
Electives.....	0-1
Total.....	17-18

## THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation.....	3
Bus. Law 1a—Commercial Law.....	3
Trans. 1—Transportation System of the United States.....	3
Prescribed Technical courses, Group A, B, C, or D.....	2-6
Electives.....	0-7
Total.....	15-18

Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2
Bus. Law 2b—Commercial Law.....	3
Econ. 23—Statistics.....	3
Trans. 12—Freight Rates.....	2
Prescribed Technical Courses, Group A, B, C, or D.....	3-6
Electives.....	0-5
Total.....	16-18

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship.....	2
Econ. 12a—Labor Problems, or Electives....	3
Prescribed Technical Courses, Group A, B, C, or D.....	3-9
Electives.....	0-7

Total..... 16-18

Bus. Org. and Op. 8—Advertising.....	2
Econ. 12b—Labor Problems or Econ. 10—Corporation Management and Finance.....	3
Prescribed Technical Courses, Group A, B, C, or D.....	2-10
Electives.....	0-11

Total..... 17-18

## Optional Groups of Technical Courses

## GROUP A:

## FIRST SEMESTER

T. and A. M. 21—Analytical Mechanics.....	2
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## THIRD YEAR

Hours<sup>1</sup>

## SECOND SEMESTER

Hours<sup>1</sup>

M. E. 75—Forge Work.....	1
M. E. 77—Foundry Work.....	3
M. E. 2—Steam Engineering.....	3

## FOURTH YEAR

## FIRST SEMESTER

M. E. 61—Power Measurement.....	2
M. E. 81—Machine Work.....	3
E. E. 11—Direct Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1

## SECOND SEMESTER

E. E. 12—Alternating Current Apparatus....	3
E. E. 62—Alternating Current Laboratory...	1

## GROUP B:

## FIRST SEMESTER

T. and A. M. 21—Analytical Mechanics.....	2
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## THIRD YEAR

## SECOND SEMESTER

M. E. 2—Steam Engineering.....	3
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## FOURTH YEAR

## FIRST SEMESTER

M. E. 61—Power Measurement....	2
E. E. 11—Direct Current Apparatus.....	3
E. E. 61—Electrical Engineering Laboratory..	1

## SECOND SEMESTER

E. E. 12—Alternating Current Apparatus....	3
E. E. 62—Electrical Engineering Laboratory..	1
E. E. 90—Lighting.....	1

## GROUP C:

## FIRST SEMESTER

Arch. Eng. 43—Working Drawings.....	2
T. and A. M. 25—Resistance of Materials.....	4

## THIRD YEAR

## SECOND SEMESTER

T. and A. M. 26—Analytical Mechanics and Hydraulics.....	4
Arch. Eng. 44—Working Drawings.....	2

## FOURTH YEAR

## FIRST SEMESTER

Arch. Eng. 45—Graphic Statics.....	3
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## SECOND SEMESTER

C. E. 76—Surveying.....	2
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## GROUP D:

## FIRST SEMESTER

Chem. 2a—Inorganic Chemistry and Qualita- tive Analysis.....	5
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## THIRD YEAR

## SECOND SEMESTER

Chem. 5a—Elementary Quantitative Analysis	5
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## FOURTH YEAR

## FIRST SEMESTER

Chem. 9c—Organic Synthesis.....	2
Chem. 14a—Organic Chemistry.....	4
Chem. 92a—Journal Meeting.....	1

## SECOND SEMESTER

Chem. 6—Chemical Technology.....	3
Chem. 31—Elementary Physical Chemistry..	4
Chem. 33—Elementary Physical Chemistry..	2
Chem. 92b—Journal Meeting.....	1

## Curriculum in Commerce and Law

(A six-year combined curriculum)

The following curriculum is provided for students who wish to combine commercial and legal studies and secure both the degree of Bachelor of Science and the degree of Bachelor of Laws or of Doctor of Law in six years. Students who elect this curriculum must meet all the requirements for graduation from the College of Commerce and Business Administration, but in exercising their privileges of election are urged to select as

<sup>1</sup>Semester hours. For definition see page 249.

many hours as possible from the following subjects: Hist. 2a-2b, English History (6); Hist. 3a-3b, United States History (6); Hist. 4a-4b, English Constitutional History (6); Pol. Sci. 1, American Government (3); and Pol. Sci. 3, State and Local Government (3). Students expecting to study law should devote at least 12 hours to work in history and political science. A course in English history is regarded as one of the most essential pre-legal subjects. The law courses in the curriculum may be taken only in the fourth year, and are counted for 30 hours of credit towards the degree, instead of hour for hour, provided the full year's work is completed. In their fourth year students will be regularly registered in the College of Law, but must file copies of their study-lists in the office of the Dean of the College of Commerce and Business Administration at the beginning of each semester.

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>		Hours <sup>1</sup>
Acc'y 1—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3	Econ. 22—Economic History of the United States.....	3
Econ. 26—Economic Resources.....	3	Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 1a—Military Drill.....	$\frac{1}{2}$	Phys. Ed. 2—Gymnasium.....	1
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Electives.....	4-7	Electives.....	4-7		
Total.....	15-18	Total.....	15-18		
		SECOND YEAR			
Acc'y 2—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3		
Econ. 1—Principles of Economics.....	5	Econ. 3—Money and Banking.....	3		
Rhet. 10—Business Writing.....	2	Philos. 1—Logic.....	3		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$		
Electives.....	4-7	Electives.....	5-8		
Total.....	15-18	Total.....	15-18		
		THIRD YEAR			
Bus. Org. and Op. 1—Business Organization and Operation.....	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution.....	2		
Econ. 5—Public Finance.....	3	Econ. 10—Corporation Finance.....	3		
Econ. 28—Domestic Commerce.....	3	Electives.....	10-13		
Electives.....	6-9				
Total.....	15-18	Total.....	15-18		
		FOURTH YEAR			
Law. 1a—Contracts.....	4	Law 1b—Contracts.....	3		
Law 2a—Torts.....	3	Law 2b—Torts.....	3		
Law 5—Criminal Law.....	4	Law 3—Real Property.....	3		
Law 6—Personal Property.....	2	Law 7—Domestic Relations.....	2		
Law 37—Introduction to Study of Law.....	1	Law 11—Agency.....	3		
Total.....	14	Total.....	14		

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Those students who show by examination proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.



# THE COLLEGE OF ENGINEERING

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For a description of the *buildings* used by this College, see page 52; for *collections* belonging to it, see page 63; for *clubs and societies auxiliary to its curriculums*, see page 101; for *fees*, see page 111; for *honors*, see page 90; for *honorary societies*, see page 100.

## GENERAL STATEMENT

The purpose of the College is to train men for the profession of engineering. In arranging its curriculums, cultural subjects are interwoven with the theoretical subjects of the several departments. The instruction of the class-room and the practise afforded by the library, the drafting room, and the laboratory are correlated. Throughout his course the student works on problems and proceeds by methods similar to those which arise in the experience of the practising engineer.

## ADMISSION

See the statement of entrance requirements of the University, pages 68-75.

## SPECIAL STUDENTS

See the statement of the regulations of the University in regard to special students, page 72.

## DESCRIPTION OF DEPARTMENTS

The College of Engineering comprises the following departments:

DEPARTMENT OF ARCHITECTURE, with curriculums in—

Architecture

Architectural Engineering

DEPARTMENT OF CERAMIC ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

DEPARTMENT OF ELECTRICAL ENGINEERING

DEPARTMENT OF MECHANICAL ENGINEERING

DEPARTMENT OF MINING ENGINEERING

DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING

DEPARTMENT OF PHYSICS

DEPARTMENT OF RAILWAY ENGINEERING,<sup>1</sup> with curriculums in—

Railway Civil Engineering

Railway Electrical Engineering

Railway Mechanical Engineering

## ARCHITECTURE

The department of architecture offers two curriculums leading to the first degree, the curriculum in architecture and the curriculum in architectural engineering. The aim of these curriculums is to give preparation for the practise of architecture.

The curriculum in architecture aims primarily to train the student to produce correct, thoughtful, and beautiful works of architecture. The schedule includes liberal and scientific

<sup>1</sup>The School of Railway Engineering and Administration (page 195) offers, in addition to the three curriculums named here, curriculums in railway transportation and railway administration under the direction of the College of Commerce and Business Administration. See pages 136-7 above.

subjects to supply the background for creative work and to give a knowledge of the principles involved in the processes of safe and economical construction; also freehand drawing for the purpose of training the eye to recognize correct proportion and training the hand to skillful and rapid drawing. The curriculum, however, consists mainly of the study of architectural forms and principles and their application in architectural design. From time to time the problems of the Society of Beaux Arts of Architects are given and the student drawings sent to New York for judgment.

The curriculum in architectural engineering gives a groundwork in mathematics and applied mechanics, and includes such studies as strength of materials, bridge, mill, and tall building construction, reinforced concrete, etc. The principles of these subjects are applied to all forms of building construction in a course given in the senior year, known as architectural engineering. While specializing in construction, this curriculum includes also the study of the forms and principles of architecture through such subjects as freehand drawing, architectural history, architectural drawing, and architectural design.

Both curriculums in architecture prepare the student for the examinations of the Illinois State Board of Examiners of Architects, and graduates are exempt from examinations required for entrance into the American Institute of Architects, and from the preliminary examination for the prize in Architecture of the American Academy at Rome. The Plym Fellowship in Architecture is awarded annually to a graduate of the department. This prize, which is awarded by competition, amounts to \$1,000 and provides for one year of travel abroad for the study of architecture.

The American Institute of Architects offers annually a medal to be awarded to the graduate of the department whose work throughout the four years has been adjudged the best. In making the award the scholarship in all work for the entire curriculum is considered.

The Scarab Medal in Architecture is awarded annually to a student of the department. This prize is a bronze medal which is awarded by competition.

Students intending to take up the study of architecture should take freehand and mechanical drawing and general history in high school.

### **Equipment**

The equipment of the department includes plaster casts of architectural detail and ornament; lantern slides of architectural subjects and of painting and sculpture; classified plates, photographs, and stereoscopic views; a working library of over 4,000 volumes on architecture and the allied arts; a collection of 300 examples of American woods, shown in three sections each; and collections of architectural drawings and of specimens of building materials, fittings and appliances.

A balopticon is used for direct projection of photographs and colored plates, and a double electric lantern for projecting two pictures on the screen at once for comparative study. Geometrical and architectural models are lighted by a light properly adjusted for demonstration of the subjects of shades and shadows and conventional rendering. Wall space in the corridors of the department and in all drafting rooms has been prepared for exhibition purposes, and collections of drawings are constantly displayed. The department occupies the fourth floor of Engineering Hall, and part of the third; its quarters include drafting rooms for undergraduate and graduate work, lecture rooms, studios for freehand drawing, and the Ricker Library of Architecture.

### **CERAMIC ENGINEERING**

This department offers courses of instruction relating to the fabrication of clay products, cement and glass, and enamels for metals.

In addition to the fundamental engineering courses, work is offered in the physical and chemical principles of the production of silicate products, the winning and preparation

of raw materials, their shaping, drying, and burning, or fusion, the compositions and application of the various glazes, glasses, enamels, and colors, the planning and construction of industrial plants, and the various machines, apparatus, kilns, and furnaces used in these plants.

Industrial cooperation and research are prosecuted, and a series of bulletins on ceramic subjects is being published.

#### **Equipment**

The department of ceramic engineering is housed in a three-story brick building providing lecture rooms, class rooms, and laboratory facilities.

The Ceramic laboratories contain apparatus for the testing of clays and the preparation of cements, enamels, and glasses; machinery for grinding the raw materials, for shaping bricks, tiles, saggars, pottery and refractories; kilns and furnaces for calcining and fusing; pyrometers, potentiometers, electric furnaces, recording instruments, and all other accessories for exact scientific and technical work.

A library pertaining to the silicate industries is available; also sets of working drawings representing the construction of important plants.

### **CIVIL ENGINEERING**

The purpose of the department is to make possible a systematic study of the principles of engineering and to give the students an opportunity for practise in the survey, design, and construction of public and other engineering works. The prime object is to bring about the development of the mental faculties of the student, particularly his initiative, and to help him to obtain a good grasp of the needs and opportunities afforded by engineering in general.

#### **Equipment**

For the surveying courses there is a full equipment of engineers' transits, levels, plane-tables, and other instruments in use not only in ordinary and railroad surveying, but also in more precise work.

In a building set apart for the purpose is a well equipped highway laboratory containing machines for testing bituminous and non-bituminous road materials, including brick, stone, and other road-making substances. The cement laboratory occupies a room in this building. It is provided with facilities for testing hydraulic cement, sand, and other aggregates used in concrete.

### **ELECTRICAL ENGINEERING**

This department provides a curriculum in the theory and application of electricity. The first two years of work are substantially the same as in the other engineering curriculums, including work in drafting room and shop, and instruction in the principles of mathematics and physics. In the third year a course in dynamo machinery is followed by the theory of alternating currents, while laboratory and design courses emphasize principles. Technical courses cover the generation, transmission, and distribution of electric power, and its various applications. In the laboratory a study of dynamos is followed in the fourth year by experiments in the operation of electrical machinery. Investigation of problems of power distribution is made in advanced laboratory and thesis work.

#### **Equipment**

The 500-kilowatt power plant of the University supplies the electrical engineering laboratory with current for its operation.

The power equipment in the electrical engineering laboratory includes one hundred direct-current machines with a total capacity of 600 kilowatts, forty alternating-current

machines with a total capacity of 400 kilowatts, and sixty-three transformers with a total capacity of 380 kilowatts. Experimental switchboards containing a total of 30 panels afford distribution and control.

The instrument room contains standards for the calibration of commercial instruments of all types, two hundred and fifty portable instruments for experimental work, and a 240 ampere-hour storage battery. The graduate laboratory contains apparatus for research including four oscillographs, one 2,000-cycle alternator, one 200,000-volt transformer, one 1,000-ampere direct current generator, and apparatus for high voltage direct current investigations. The photometer room contains apparatus for tests of the various light sources. Two special 100-line switchboards are connected with cables and apparatus for experiments in telephony. The equipment for electrometallurgical work includes one 30-kilowatt induction furnace, one 25-kilowatt arc furnace, two 30-kilowatt resistance furnaces, one 15-kilowatt vacuum furnace for melting, one 3-kilowatt vacuum furnace for annealing and one 1.5-kilowatt muffle furnace.

## MECHANICAL ENGINEERING

The courses in mechanical engineering are planned to present the theory and practise of the generation and transmission of power, and of the design, construction, operation, and testing of machinery of all kinds. In the laboratories emphasis is given to the engineering and economic principles of machine construction and to problems of scientific shop management.

### Equipment

*The Designing Rooms* are supplied with drawing tables, and with reference books, files of trade catalogs, gear charts, and collections of blue prints. A collection of kinematic models, sectional steam specialties, lantern slides, and photographs is also available.

*The Mechanical Engineering Laboratory* is equipped with machines and testing instruments for instruction in steam engineering, gas power engineering, refrigeration, heating and ventilation, including a 210-horsepower experimental boiler, equipped with chain-grate stoker, fuel economizer, and induced draft; a separately fired steam superheater; types of throttling, high-speed automatic, and Corliss steam engines; steam condensers; a compound two-stage air compressor; a large compound duplex steam pump; a Kerr steam turbine; a DeLaval turbo-pump; a 200,000-pound Lea water-flow; a 10-ton ammonia compression refrigerating machine; a 10-ton ammonia absorption refrigerating machine; typical gas, gasoline, and oil engines; a 50-horsepower suction gas producer, house-heating boilers and furnaces; a 150-horsepower electric absorption and transmission dynamometer; and apparatus for instruction in heating and ventilation and the mechanical equipment of buildings. The central heating and power plant contains types of boilers, stokers, pumps, and engines in commercial service.

*The Shop Laboratories* are provided with machinery and apparatus to illustrate the process of the manufacture of machinery. The laboratories include the *Wood Shop* with an equipment of benches, lathes, machinery, and small tools needed in pattern construction; the *Foundry* equipped with cupola, brass furnaces, core ovens, molding machines, and facilities for bench and floor molding; the *Forge Shop* equipped with forges, anvils and small tools, a steam hammer, a power-driven punch and shear, and with gas and electric furnaces; and the *Machine Shop* with an equipment of lathes, planers, shapers, milling machines, grinders, boring mills, drill presses, and with typical small tools and fixtures used in manufacturing.

## MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of engineering.

The *Laboratory of Applied Mechanics* comprises the materials testing laboratory and the hydraulics laboratory. The equipment of the *Materials Testing Laboratory* includes testing machines and apparatus for making physical tests of materials of construction, such as tension, compression, flexure, shearing, torsion, hardness, and impact tests, and tests under repeated load. The laboratory contains machines of capacity for testing full size structural and machine members. Among these there is a universal machine of six hundred thousand pounds capacity. Facilities are provided for making, curing, and testing concrete and reinforced concrete test specimens. The *Hydraulics Laboratory* has facilities for furnishing water under a range of pressures and volumes. There is an equipment of devices for measuring and recording the flow of water, including measuring pits, water meters, weir channels, nozzles, pitometer, and Venturi meters. In the equipment are pumps, a stand-pipe, water motors, and a turbine water wheel for testing purposes. A supply of pressure gauges, weighing scales, and other auxiliary apparatus is provided.

### MINING ENGINEERING

The department of mining engineering offers courses of instruction in mining and metallurgical engineering to train men for the various phases of the mineral industry.

The work of the department adds to the preliminary courses in mathematics, languages, chemistry, physics, and general engineering, that are common to all courses in engineering, specialized work in mine surveying, mining methods, geology, prospecting, mine examination and valuation, ventilation, mining machinery, coal washing and ore concentration, metallurgy, utilization of fuels, administration and organization of mines, mining law, and the design of mining and metallurgical structures.

There are three distinct options, coal mining, ore mining and metallurgical engineering, and by means of the electives offered, a student can also specialize along the geological phases of mining, including work in oil prospecting and development.

In addition to its work of instruction, the department concerns itself with the development and dissemination of scientific facts of service in improving the practise of mining, with reference to efficiency in operation, the security of life in the mines, and the conservation of the mineral resources of the State.

#### Equipment

The drawing room contains the catalogs of the manufacturers of mining machinery with a complete card index, the standard reference books on mine and mill design, and an unusually complete collection of photographs, blue-prints and drawings of mines, mine structures, and ore and coal preparation, and metallurgical plants.

The mine-gas and safety-lamp laboratory contains safety lamps of different types, electric and magnetic locking appliances, a photometer, a dark room for photometric work, Ryan, Oldham, and Hailwood safety-lamp testing apparatus, appliances for gas and dust analysis and explosibility tests, and a Bacharach hydro volume and pressure recorder.

The coal washing and ore dressing laboratory contains for crushing, rolls, gyratory and jaw crushers, and a 500-pound 3-stamp battery; for screening and sizing, trommels, shaking and vibrating screens, and classifiers; for concentrating and cleaning, pan, piston and pulsating jigs, bumping table, vanner, sand, concentrating table, and slimer. These machines can handle 3 to 5 tons of coal and one ton of ore an hour. There are also a complete sampling and drying equipment, a cyanide testing plant, a Huff electrostatic machine, flotation units, a magnetic separator and other appliances used for preliminary testing. Adjoining this laboratory is a chemical and assay laboratory equipped for the analytical work required in connection with coal washing and ore concentration.

The explosives and drilling laboratory contains types of rock and coal drills, an air meter, a diamond drill, chain and puncher, coal cutters, and a complete outfit for demonstrating the use of explosives.

### **MINE INVESTIGATION STATION AND LABORATORIES**

Cooperating with the department of mining engineering and with the State Geological Survey, the Federal Government in 1909 established at the University a mine rescue station in charge of a resident mining engineer. The purpose of the station was to interest all connected with the mining industry in modern appliances and breathing and resuscitation apparatus as part of the normal equipment of mines. At the station mine bosses and others were trained in the use of such apparatus, this service being rendered freely to all who desired the benefits thereof.

A direct outcome of the cooperative rescue station has been the establishment of a comprehensive mine rescue service by the State of Illinois. This state service has rendered unnecessary the maintenance of the cooperative rescue station in Urbana. The station is now maintained by the University for the training of students, but the United States Bureau of Mines keeps certain apparatus on exhibition.

The Cooperative Investigation of Illinois mining conditions is another outgrowth of the mine rescue station. This cooperation between the Engineering Experiment Station of the University of Illinois, the Illinois State Geological Survey and the United States Bureau of Mines has for a number of years carried on an investigation of the mineral resources and the mining and metallurgical practises in the State.

All laboratories of the mining department are available for the use of the Cooperative Investigation and are used jointly by the chemists and engineers of the three cooperating agencies.

The United States Bureau of Mines has established in Urbana one of its substations for the Middle West. It is in charge of a superintendent and there are in addition two resident mining engineers, a gas engineer, and a chemist.

### **MUNICIPAL AND SANITARY ENGINEERING**

This curriculum is designed to train students for the duties of the engineer employed on the design, construction, and operation of public works and public utilities, and for general engineering work.

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering curriculum. Chemistry and bacteriology of water supply and sewage disposal are given; and instruction in mechanical and electrical engineering in the generation and transmission of power.

### **PHYSICS**

The department of physics occupies the Laboratory of Physics. This building supplies facilities and equipment for instruction and investigation in physics. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents are available in all parts of the building. There is a collection of over 4,000 pieces of apparatus, and only a small part of the equipment is antiquated. New investigations can usually be started with the apparatus on hand. There are two workshops, one for advanced students and instructors, and one for the mechanics of the department. The students' shop is equipped with lathes, drill press, and bench tools. The mechanics' shop contains lathes, milling machines, drill press, and other facilities for fine machine work.

The University Library contains sets of journals of physics and the related sciences in English, French, and German. The recent volumes of the physical journals, together with a collection of text-books, encyclopedias, dictionaries, and other reference books, are in the special library of the Laboratory.

**RAILWAY ENGINEERING<sup>1</sup>**

The department of railway engineering is organized to train students for service in the technical departments of railways. It offers curriculums in railway civil engineering, railway electrical engineering, and railway mechanical engineering, all three of which are substantially the same as the corresponding civil, electrical, and mechanical engineering curriculums to the middle of the third year, after which is given in each course a group of subjects relating to the technical problems of steam or electric railways. The curriculums in railway civil and railway mechanical engineering are designed for those who wish to enter steam railway service in the engineering and motive power departments respectively, while the curriculum in railway electrical engineering is intended for those who will serve on electric railways or in the electrical departments of steam roads. The special subjects of the curriculum in railway civil engineering concern the location, design, construction, and maintenance of railway track and equipment, and the design of railway structures. The courses in railway electrical engineering deal with the design and construction of electrical railway equipment, the operation and performance of electric cars and locomotives and with the problems which arise in the electrification of steam lines. The curriculum in railway mechanical engineering adds to the fundamentals of the general mechanical engineering curriculum special railway courses on the design of locomotives and cars, the resistance of trains, the performance and tests of locomotives, and tests of railway equipment.

**Equipment**

A locomotive testing plant, built from the original designs of the department, occupies a building forty by one hundred fifteen feet. The plant is devoted exclusively to making tests to determine the performance of locomotives. The locomotives tested have, for the most part, been furnished by certain railroad companies. Permanent arrangements are contemplated under which it may be possible to maintain in the plant a locomotive of the latest design.

For purposes of instruction a light freight locomotive is permanently available in this laboratory. This locomotive, donated to the department by the Illinois Central Railroad, is of the mogul type, has 19x26 simple cylinders using saturated steam, 1,530 square feet of heating surface, 26 square feet of grate area, and weighs with its tender 206,000 pounds.

The department owns and operates, jointly with the Illinois Central Railroad, a railway test car designed for experimental work on steam roads. It is equipped for making train resistance and locomotive performance tests, and during the last fifteen years has been in frequent operation in carrying on resistance and tonnage rating tests on the Illinois Central Railroad and on several eastern roads.

For work on electric roads the department owns an electric test car, of the inter-urban type, designed and built for the University. It is equipped with four 50-horsepower direct current motors and with the Westinghouse multiple control system, and is provided with instruments for recording power, speed, acceleration, and the other data needed in road tests, and for measuring and recording the electric resistance of rail bonds. Through the courtesy of the Illinois Traction System this car is operated on its lines, which enter the campus of the University.

The department laboratory equipment includes a drop-testing machine and a brake-shoe testing machine, both constructed in accordance with the standards of the Master Car Builders' Association. The drop-testing machine is designed for use in testing the strength of railroad rails, car axles, car couplers, and draft gears; and may be used in studies of the physical properties of structural materials of any sort. The brake-shoe testing machine supplies means for determining the wearing properties and frictional qualities of brake-shoes, such as are employed in regular service on railroad trains.

<sup>1</sup>See also School of Railway Engineering and Administration, page 195.

Much of the work in the railway courses is given in the departments of civil, electrical, and mechanical engineering, and the shop and laboratory equipment of these departments is available for students in the railway department.

Three steam roads—the Illinois Central, the Cleveland, Cincinnati, Chicago & St. Louis, and the Wabash railroads—and two electric interurban roads—the Illinois Traction System and the Kankakee and Urbana railway—enter Champaign and Urbana. The department is afforded opportunities by them for practical road tests and field work.

### **NON-TECHNICAL ELECTIVES**

The non-technical electives for students in the College of Engineering are subject to the following restrictions:

1. They are restricted to courses offered in the College of Liberal Arts and Sciences and in the College of Commerce, and courses 1 to 10 in Music.
2. Such courses must not be open to freshman students.
3. The courses must be approved by the head of the department in which the student making the election is registered.
4. Students in the College of Engineering electing the third and fourth years work in the Reserve Officers' Training Corps may substitute the four hours credit thus received for three hours of the required non-technical electives.

### **GENERAL ENGINEERING LECTURES FOR FRESHMEN**

One general lecture, sufficiently popular in character to interest and inspire young students, will be given each week. All freshmen engineering students are required to attend this lecture.

### **TRIPS OF INSPECTION**

Students in the College of Engineering are required to make a trip of inspection during their senior year. Such trips supply an opportunity to inspect the work of industrial establishments and of engineering enterprises. They usually occupy from three to four days, and are taken during term time, under the supervision of University authorities. They involve an expense of approximately \$25 to \$30 to each student. For the year 1919-20, the trips occurred on November 17, 18, 19, 1919, except that for the Department of Mining Engineering. This department will conduct an inspection trip in the spring of 1920.

No student not in line for graduation shall be permitted to go on the annual inspection trip of the College of Engineering without the approval of the General Committee of Inspection Trips.

### **CURRICULUMS AND DEGREES**

The curriculums leading to the degree of Bachelor of Science in the College of Engineering are given herewith in full. Each of the twelve curriculums given may ordinarily be completed in a period of four years.

A graduate of the University of Illinois in architectural, ceramic, civil, electrical, mechanical, mining, municipal and sanitary, or railway engineering may receive the degree of an allied curriculum on the completion of from thirty to thirty-six semester hours work approved by the faculty. This work may ordinarily be done in one academic year.

A graduate of the College of Liberal Arts and Sciences of the University of Illinois, or of any college of equal standing, whose mathematical training includes the calculus, who has had an acceptable course in physics, and sufficient training in mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in Engineering on the completion of sixty-eight credit hours of work in engineering under the direction of the faculty. This work may be ordinarily done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should have special preparation in drawing.



## RHETORIC PREREQUISITE FOR JUNIOR STANDING

Rhetoric 1 and 2 are prerequisites for junior standing in the College of Engineering, and no student in this College shall be permitted to register in more than eight hours of prescribed junior work without having passed or being registered in Rhetoric 1 or 2.

## Curriculum in Architecture

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>		Hours <sup>1</sup>
Arch. 31—Arch. and Freehand Drawing.....	4	Arch. 32—Arch. and Freehand Drawing.....	4	Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4
G. E. D. 2—Descriptive Geometry.....	4	T. and A. M. 14—Elem. Mechanics.....	4	Rhet. 2—Rhetoric and Themes.....	3
Math. 2—Advanced Algebra.....	3	Phys. Ed. 2—Gymnasium.....	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Math. 4—Trigonometry.....	2	Mil. 2b—Military Theory.....	$\frac{1}{2}$	Engineering Lecture.....	0
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3				
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1				
Mil. 1a—Military Drill.....	$\frac{1}{2}$				
Mil. 1b—Military Theory.....	$\frac{1}{2}$				
Engineering Lecture.....	0				
Total.....	18	Total.....	16 or 17		

SECOND YEAR		SECOND YEAR	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Arch. 13—History of Architecture.....	2	Arch. 14—History of Architecture.....	2
Arch. 23—Freehand Drawing.....	2	Arch. 24—Freehand Drawing.....	2
Arch. 33—Design.....	3	Arch. 34—Design.....	3
Arch. 43—Working Drawings.....	3	Arch. 44—Working Drawings.....	3
Phys. 9a—Physics Lectures.....	2	Phys. 9b—Physics Lectures.....	2
Phys. 10a—Physics Laboratory.....	2	Phys. 10b—Physics Laboratory.....	2
T. and A. M. 15—Strength of Materials.....	3	T. and A. M. 16—Strength of Materials.....	3
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

THIRD YEAR		THIRD YEAR	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
Arch. 25—Freehand Drawing.....	2	Arch. 26—Freehand Drawing.....	2
Arch. 35—Design.....	5	Arch. 36—Design.....	5
Arch. 45—Graphic Statics.....	3	Arch. 46—Roofs.....	3
Arch. 65—Theory of Architecture.....	1	Arch. 55—Building Sanitation.....	1
E. E. 90—Building Illumination.....	1	Arch. 66—Theory of Architecture.....	1
French or German.....	4	French or German.....	4
Total.....	18	Total.....	18

FOURTH YEAR		FOURTH YEAR	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Arch. 27—Freehand Drawing.....	2	Arch. 28—Freehand Drawing.....	2
Arch. 27—Design.....	7	Arch. 38—Advanced Design or Thesis.....	7
Arch. 68—Specifications.....	3	Arch. 60—Special Lectures.....	1
Arch. 99—Inspection Trip.....	0	Arch. 67—Theory of Form and Color.....	2
M. E. 25—Heating and Ventilation.....	2	Non-technical Elective <sup>3</sup> .....	5
Non-technical Elective <sup>3</sup> .....	3		
Total.....	17	Total.....	17

## Curriculum in Architectural Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4	G. E. D. 2—Desc. Geometry.....	4
G. E. D. 1—Elements of Drafting.....	4	Math. 6—Analytic Geometry.....	5	Rhet. 2—Rhetoric and Themes.....	3
Math. 2—Advanced Algebra.....	3	Phys. Ed. 2—Gymnasium.....	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Math. 4—Trigonometry.....	2	Mil. 2b—Military Theory.....	$\frac{1}{2}$	Engineering Lecture.....	0
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3				
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1				
Mil. 1a—Military Drill.....	$\frac{1}{2}$				
Mil. 1b—Military Theory.....	$\frac{1}{2}$				
Engineering Lecture.....	0				
Total.....	17 or 18	Total.....	18		

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

<sup>3</sup>Any approved non-technical course. See page 148.

## SECOND YEAR

Arch. 13—History of Architecture.....	2	Arch. 14—History of Architecture.....	2
A. E. 33—Arch. and Freehand Drawing.....	3	A. E. 34—Design.....	3
A. E. 43—Working Drawings.....	2	A. E. 44—Working Drawings.....	2
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$

Total..... 18

Total..... 18

## THIRD YEAR

Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
A. E. 35—Design.....	3	A. E. 36—Design.....	3
A. E. 45—Graphic Statics.....	3	A. E. 46—Graphic Statics.....	3
Language.....	4	Language.....	4
T. and A. M. 25—Resistance of Materials.....	4	T. and A. M. 26—Analytical Mechanics and Hydraulics.....	4
Non-technical Elective <sup>1</sup> .....	2	Non-technical Elective <sup>1</sup> .....	2

Total..... 18

Total..... 18

## FOURTH YEAR

A. E. 47—Architectural Engineering.....	5	A. E. 48—Architectural Engineering.....	5
A. E. 57—Fireproof Construction.....	2	A. E. 58—Fireproof Construction.....	2
A. E. 99—Inspection Trip.....	0	A. E. 67—Building Sanitation.....	2
E. E. 92—Lighting and Wiring.....	2	A. E. 58—Estimates and Specifications.....	4
M. E. 23—Mech. Equipment of Buildings.....	5	Non-technical Elective <sup>1</sup> .....	3
Non-technical Elective <sup>1</sup> .....	3		

Total..... 17

Total..... 16

## Curriculum in Ceramic Engineering

## FIRST YEAR

## FIRST SEMESTER

	Hours <sup>2</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4
G. E. D. 1—Elements of Drafting.....	4
Math. 2—College Algebra.....	3
Math. 4—Trigonometry.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$
Engineering Lecture.....	0

Total..... 17 or 18

## SECOND SEMESTER

	Hours <sup>3</sup>
Chem. 4—Qualitative Analysis.....	4
G. E. D. 2—Descriptive Geometry.....	4
Math. 6—Analytic Geometry.....	5
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 2—Gymnasium.....	1
Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 2b—Military Theory.....	$\frac{1}{2}$
Engineering Lecture.....	0

Total..... 18

## SECOND YEAR

Chem. 5a—Quantitative Analysis.....	5	Chem. 5b—Quantitative Analysis.....	5
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Cer. 1—Ceramic Materials.....	3	Mil. 4b—Military Theory.....	$\frac{1}{2}$
		Cer. 2—Winning and Preparation of Clays.....	3

Total..... 19

Total..... 19

## THIRD YEAR

Cer. 12—Designing and Shaping.....	3	Cer. 3—Industrial Calculations.....	3
Chem. 65—Gas and Fuel Analysis.....	2	Cer. 5—Ceramic Bodies.....	5
French or German.....	4	C. E. 76—Surveying.....	2
T. and A. M. 21—Analytical Mechanics.....	2	French or German.....	4
T. and A. M. 25—Resistance of Materials.....	4	Non-technical Elective <sup>1</sup> .....	3
Non-technical Elective <sup>1</sup> .....	3		

Total..... 18

Total..... 17

## FOURTH YEAR

Cer. 4—Drying and Burning.....	5	Cer. 9—Ceramic Construction.....	4
Cer. 6—Glazes.....	6	M. E. 62—Power Measurement.....	3
Cer. 17—Physical Chemistry.....	4	Non-technical Elective <sup>1</sup> .....	3
Cer. 99—Inspection Trip.....	0	Thesis or (with the approval of the Department) Technical Elective.....	3 or 5
Technical Elective.....	3	Technical Elective.....	2 or 0

Total..... 18

Total..... 15

<sup>1</sup> Any approved non-technical course. See page 150.<sup>2</sup> Semester hours. For definition, see page 249.<sup>3</sup> Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## Curriculum in Civil Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Inorganic Chemistry.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½
Mil. 1a—Military Drill.....	1½	Mil. 2b—Military Theory.....	1½
Mil. 1b—Military Theory.....	0	Engineering Lecture.....	0
Engineering Lecture.....	0		
Total.....	18	Total.....	18

## SECOND YEAR

C. E. 27—Plain Surveying.....	3	C. E. 28—Higher Surveying.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	1½	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	1½	Mil. 4a—Military Drill.....	1½
		Mil. 4b—Military Theory.....	1½
Total.....	18	Total.....	18

## THIRD YEAR

C. E. 51—Railroad Surveying.....	5	C. E. 52—Roads and Pavements.....	3
M. E. 1—Steam Engines and Boilers.....	3	C. E. 60—Structural Stresses.....	4
T. and A. M. 21—Analytical Mechanics.....	2	C. E. 62—Structural Details.....	2
T. and A. M. 29—Resistance of Materials.....	5	C. E. 70—Seminar.....	1
Non-technical Elective <sup>3</sup> .....	3	T. and A. M. 10—Hydraulics.....	3
		Non-technical Elective <sup>3</sup> .....	3
Total.....	18	Total.....	16

## FOURTH YEAR

C. E. 95—Plain Concrete.....	2	C. E. 80—Contracts and Specifications.....	2
C. E. 81—Theory of Reinforced Concrete.....	2	C. E. 82—Concrete Design.....	4
C. E. 85—Steel Bridge Design.....	5	Non-technical Elective <sup>3</sup> .....	3
C. E. 99—Inspection Trip.....	0	Technical Electives <sup>4</sup> .....	9
M. and S. E. 2—Water Supply Engineering..	4		
Technical Electives <sup>4</sup> .....	6		
Total.....	18	Total.....	18

## TECHNICAL ELECTIVES—FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
C. E. 37—Map Reading and Military Sketching.....	2	C. E. 78—Drainage Engineering.....	3
C. E. 57—Stream Flow.....	2	C. E. 84—Engineering Functions.....	2
C. E. 81—Masonry Construction.....	4	C. E. 86—Public Service Engineering.....	3
C. E. 87—Advanced Bridge Analysis.....	2	C. E. 94—Highway Administration.....	3
C. E. 89—Hydro-Economics.....	2	C. E. 96—Road Materials.....	2
C. E. 93—Highway Design.....	3	C. E. 98—Thesis.....	2
C. E. 97—Thesis.....	1	Chem. 73—Asphalts, Tars, etc.....	2
Min. 2—Mining Principles.....	3	E. E. 4—Electrical Engineering.....	2
		E. E. 64—Electrical Engineering Lab.....	1
		M. and S. E. 3—Sewerage.....	3
		M. and S. E. 9—Hydraulic Design and Construction.....	2
		R. E. 33—Economics of Railway Location...	4

<sup>1</sup>Semester hours. For definition, see page 249.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.<sup>3</sup>Any approved non-technical course. See page 148.<sup>4</sup>Students desiring to specialize in Structural Engineering should elect C. E. 77 and 87. Students desiring to specialize in Highway Engineering should elect C. E. 93, 94, 96, and Chem. 73.

## Curriculum in Electrical Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4	G. E. D. 2—Descriptive Geometry.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4	Math. 6—Analytic Geometry.....	5
Math. 2—Algebra.....	3	Math. 6—Analytic Geometry.....	5	Rhet. 2—Rhetoric and Themes.....	3
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1	Mil. 2a—Military Drill.....	1½
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½	Mil. 2b—Military Theory.....	½
Mil. 1a—Military Drill.....	½	Mil. 2b—Military Theory.....	½	Engineering Lecture.....	0
Mil. 1b—Military Theory.....	½				
Engineering Lecture.....	0				
Total.....	17 or 18	Total.....	18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Language.....	4	E. E. 25—Direct Current Apparatus.....	4	E. E. 96—Seminar.....	1
Math. 7—Differential Calculus.....	5	E. E. 75—Elec. Eng. Laboratory.....	2	E. E. 36—Alternating Current Apparatus.....	4
M. E. 75 and 77—Forge and Foundry, or		M. E. 75—Elec. Eng. Laboratory.....	2	E. E. 86—Elec. Eng. Laboratory.....	2
M. E. 79—Pattern Work.....	3	Math. 9a—Integral Calculus.....	2	M. E. 2—Steam Engineering.....	3
Phys. 1a—Physics Lectures.....	3	M. E. 81—Machine Work.....	3	Phys. 4b—Elec. and Mag. Measurement.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 4a—Elec. and Mag. Measurement.....	2	T. and A. M. 26—Anal. Mechanics and Hy-	
Mil. 3a—Military Drill.....	½	T. and A. M. 25—Resistance of Materials....	4	draulics.....	4
Mil. 3b—Military Theory.....	½			Non-technical Elective <sup>3</sup> .....	3
Total.....	18	Total.....	18		
THIRD YEAR		FOURTH YEAR		FOURTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
E. E. 25—Direct Current Apparatus.....	4	E. E. 96—Seminar.....	1	E. E. 96—Seminar.....	1
E. E. 75—Elec. Eng. Laboratory.....	2	E. E. 36—Alternating Current Apparatus.....	4	E. E. 36—Alternating Current Apparatus.....	4
Math. 9a—Integral Calculus.....	2	E. E. 86—Elec. Eng. Laboratory.....	2	E. E. 86—Elec. Eng. Laboratory.....	2
M. E. 81—Machine Work.....	3	E. E. 56—Electrical Design.....	4	E. E. 56—Electrical Design.....	4
Phys. 4a—Elec. and Mag. Measurement.....	2	E. E. 98—Thesis or Elective.....	3	E. E. 98—Thesis or Elective.....	3
T. and A. M. 25—Resistance of Materials....	4	Non-technical Elective <sup>3</sup> .....	3	Non-technical Elective <sup>3</sup> .....	3
Total.....	17	Total.....	17		

## Curriculum in Mechanical Engineering

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4	G. E. D. 2—Descriptive Geometry.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4	Math. 6—Analytic Geometry.....	5
Math. 2—Algebra.....	3	Math. 6—Analytic Geometry.....	5	Rhet. 2—Rhetoric and Themes.....	3
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1	Mil. 2a—Military Drill.....	1½
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½	Mil. 2b—Military Theory.....	½
Mil. 1a—Military Drill.....	½	Mil. 2b—Military Theory.....	½	Engineering Lecture.....	0
Mil. 1b—Military Theory.....	½				
Engineering Lecture.....	0				
Total.....	17 or 18	Total.....	18		
SECOND YEAR		THIRD YEAR		FOURTH YEAR	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Language.....	4	Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3	Math. 9—Integral Calculus.....	3
M. E. 75 and 79—Forge and Pattern Work or		M. E. 75 and 79—Forge and Pattern Work or		M. E. 75 and 79—Forge and Pattern Work or	
M. E. 77—Foundry.....	3	M. E. 77—Foundry.....	3	M. E. 77—Foundry.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	½	T. and A. M. 20—Analytical Mechanics.....	3	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	1½	Mil. 4a—Military Drill.....	1½
Total.....	18	Mil. 4b—Military Theory.....	½	Mil. 4b—Military Theory.....	½
		Total.....	18	Total.....	18

<sup>1</sup>Semester hours. For definition, see page 249.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.<sup>3</sup>Any approved non-technical course. See page 148.

## THIRD YEAR

Math. 9a—Integral Calculus.....	2	M. E. 12—Thermodynamics.....	5
M. E. 3—Steam Engineering.....	3	M. E. 30—Mechanics of Machinery.....	5
M. E. 81—Machine Work.....	3	M. E. 64—Power Measurement.....	3
T. and A. M. 21—Analytical Mechanics.....	2	M. E. 82—Machine Work.....	2
T. and A. M. 29—Resistance of Materials.....	5	Non-technical Elective <sup>1</sup> .....	3
Non-technical Elective <sup>1</sup> .....	3		
Total.....	18	Total.....	18

## FOURTH YEAR

E. E. 11—Direct Current Apparatus.....	3	E. E. 12—Alternating Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1	E. E. 62—Alternating Current Laboratory.....	1
M. E. 15—Gas Power Engineering, or		M. E. 26—Heating and Ventilation.....	3
M. E. 37—Principles of Management.....	3	M. E. 32—Power Transmission.....	3
M. E. 43—Engineering Design.....	5	M. E. 44—Engineering Design or	
M. E. 65—Power Laboratory.....	3	M. E. 66—Power Laboratory.....	2
M. E. 99—Inspection Trip.....	0	M. E. 52—Power Plant Design.....	3
Non-technical Elective <sup>1</sup> .....	3		
Total.....	18	Total.....	15

## Curriculum in Mining Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>2</sup>		Hours <sup>2</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1 <sup>3</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½
Mil. 1a—Military Drill.....	½	Mil. 2b—Military Theory.....	½
Mil. 1b—Military Theory.....	½	Engineering Lecture.....	0
Engineering Lecture.....	0		
Tot 1.....	17 or 18	Total.....	18

## SECOND YEAR

Min. 1—Earth and Rock Excavations.....	3	Geol. 43—Engineering Geology.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	½	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	½
		Mil. 4b—Military Theory.....	½
Total.....	18	Total.....	18

## THIRD YEAR

Chem. 5a—Quantitative Analysis.....	5	C. E. 58—Graphic Statics.....	2
Min. 61—Elementary Mine Surveying.....	3	Min. 10—Electrical Engineering of Mines.....	3
M. E. 1—Steam Engineering.....	3	Min. 4—Mining Methods.....	3
Geol. 20—General Mineralogy.....	3	Min. 64—Mechanical Engineering of Mines.....	2
T. and A. M. 25—Resistance of Materials.....	4	T. and A. M. 26—Analytical Mechanics and	
		Hydraulics.....	4
		Non-technical Elective <sup>1</sup> .....	3
Total.....	18	Total.....	17

## FOURTH YEAR

## I. Coal Mining Option

Chem. 7—Metallurgy.....	3	Min. 8—Mine Law, Admin. and Accounts... ..	3
Chem. 65—Technical Gas and Fuel Analysis.....	2	Min. 13—Utilization of Fuels.....	2
Min. 5—Mine Ventilation.....	3	Min. 42—Coal Plant Design.....	2
Min. 9—Coal and Ore Preparation.....	3	Min. 62—Mine Surveying.....	3
Min. 41—Principles of Coal Plant Design.....	3	Min. 64—Coal Mining Laboratory.....	3
Min. 99—Inspection Trip.....	0	Min. 68—Mine Topography.....	1
Non-technical Elective <sup>1</sup> .....	3	Min. 90—Mining and Metallurgical Reports.....	1
		Non-technical Elective <sup>1</sup> .....	3
Total.....	17	Total.....	18

<sup>1</sup>Any approved non-technical course. See page 148.<sup>2</sup>Semester hours. For definition, see page 249.<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.<sup>4</sup>Students in Metallurgical Option take *First Semester*: Chemistry 7—General Metallurgy, instead of Mining 1, *Second Semester*: Chemistry 5a—Advanced Quantitative Analysis instead of Mining 4 and Mining 6.

## II. Ore Mining Option

Chem. 7—Metallurgy.....	3	Geol. 2—Economic Geology.....	3
Chem. 69—Metallurgical Laboratory and Assaying.....	2	Min. 8—Mine Law, Administration, and Accounts.....	3
Min. 15—Principles of Mine Ventilation.....	1	Min. 44—Ore Plant Design.....	2
Min. 19—Ore and Coal Preparation.....	3	Min. 62—Mine Surveying.....	3
Min. 21—Mine Examination and Valuation.....	2	Min. 66—Ore Concentration Laboratory.....	3
Min. 43—Principles of Ore Plant Design.....	3	Min. 90—Mining and Metallurgical Reports.....	1
Min. 99—Inspection Trip.....	0	Non-technical Elective <sup>1</sup> .....	3
Non-technical Elective <sup>1</sup> .....	3		
Total.....	17	Total.....	18

## III. Metallurgical Option

Chem. 65—Technical Gas and Fuel Analysis.....	2	Chem. 78—Metallography.....	2
Chem. 69—Metallurgical Laboratory and Assaying.....	2	Geol. 2—Economic Geology.....	3
Min. 2—Mining Principles.....	3	Min. 8—Administration and Accounts.....	2
Min. 17—Problems.....	1	Min. 13—Utilization of Fuels.....	2
Min. 19—Ore and Coal Preparation.....	3	Min. 46—Mill and Smelter Design.....	2
Min. 45—Principles of Mill and Smelter Design.....	3	Min. 66—Ore Concentration Laboratory.....	3
Min. 99—Inspection Trip.....	0	Min. 90—Mining and Metallurgical Reports.....	1
Non-technical Elective <sup>1</sup> .....	3	Non-technical Elective <sup>1</sup> .....	3
Total.....	17	Total.....	18

## Curriculum in Municipal and Sanitary Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>2</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 2a—Military Drill.....	1½
Mil. 1a—Military Drill.....	½	Mil. 2b—Military Theory.....	½
Mil. 1b—Military Theory.....	½	Engineering Lecture.....	0
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

## SECOND YEAR

C. E. 27—Plane Surveying.....	3	C. E. 28—Higher Surveying.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	½	T and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	½
		Mil. 4b—Military Theory.....	½
Total.....	18	Total.....	18

## THIRD YEAR

Bact. 6—Bacteriology.....	2½	C. E. 52—Roads and Pavements.....	3
Chem. 10b—Water Analysis.....	2½	C. E. 60—Structural Stresses.....	4
C. E. 53—Railroad Surveying.....	3	C. E. 62—Structural Details.....	2
T. and A. M. 21—Analytical Mechanics.....	2	M. E. 2—Steam Engineering.....	3
T. and A. M. 29—Resistance of Materials.....	5	T. and A. M. 10—Hydraulics.....	3
Non-technical Elective <sup>1</sup> .....	2	Non-technical Elective <sup>1</sup> .....	3
Total.....	17	Total.....	18

## FOURTH YEAR

C. E. 77—Masonry Construction.....	4	C. E. 80—Contracts and Specifications.....	2
C. E. 79—Cement Laboratory.....	1	E. E. 4—Elementary Electrical Engineering.....	2
C. E. 81—Reinforced Concrete.....	2	E. E. 64—Electrical Engineering Lab.....	1
M. E. 61—Power Measurement.....	2	M. and S. E. 3—Sewerage.....	3
M. and S. E. 2—Water Supply Engineering.....	4	M. and S. E. 6b—Water Purification and Sewage Disposal.....	2
M. and S. E. 6a—Water Purification and Sewage Disposal.....	3	M. and S. E. 9—Hydraulic Design and Construction.....	2
M. and S. E. 99—Inspection Trip.....	0	M. and S. E. 98—Thesis or Approved Elective.....	3
Non-technical Elective <sup>1</sup> .....	2	Non-technical Elective <sup>1</sup> .....	2
Total.....	18	Total.....	17

<sup>1</sup>Any approved non-technical course. See page 148.<sup>2</sup>Semester hours. For definition, see page 249.<sup>3</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## Curriculum in General Engineering Physics

(Leading to the Degree of B.S.)

The object of this curriculum is to fit persons for investigation of general engineering problems calling for a knowledge of physics and mathematics. Students who expect to teach physics and allied subjects in engineering schools will also find this curriculum of interest.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—Advanced Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Engineering Lecture.....	0
Engineering Lecture.....	0		
Total.....	17 to 18	Total.....	18

## SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
German 1—Elementary German or French 1a.....	4	Math. 9—Integral Calculus.....	3
Math. 7—Differential Calculus.....	5	German 3—Narrative Prose or French.....	4
Chem. 59—Elementary Quantitative Analysis	4	Chemistry (Elective).....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	19	Total.....	18

## THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Math. 9a—Advanced Calculus.....	2	Phys. 4b—Electrical Measurements.....	2
Phys. 4a—Electrical Measurements.....	2	Phys. 17 and 37—Light or	
Phys. 16 and 36—Heat.....	3	Phys. 23 and 33—Sound.....	3
E. E. 25—D. C. Theory.....	4	M. E. 62—Power Measurement.....	3
E. E. 75—D. C. Laboratory.....	2	E. E. 26—Alternating Current Theory.....	4
T. and A. M. 25—Resistance of Materials.....	4	E. E. 76—Alternating Current Laboratory.....	2
		Electives <sup>3</sup> .....	3-4
Total.....	17	Total.....	17-18

## FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Phys. 14a—Dynamics.....	3	Math. 17—Differential Equations.....	3
Phys. 31a—Special Investigation.....	3	Phys. 24—Properties of Matter or	
Math. 16—Adv. Cal. and Diff. Equations.....	3	Phys. 30—Introduction to Theoretical Electricity.....	3
M. E. 11—Thermodynamics.....	3	Phys. 31b—Thesis.....	3
Physics Colloquium.....	0	Chem. 31—Physical Chemistry.....	4
Elective <sup>3</sup> .....	3-5	Elective <sup>3</sup> .....	3-4
Total.....	15-17	Total.....	16-17

## Curriculum in Railway Civil Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Engineering Lecture.....	0
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

<sup>1</sup>Semester hours. For definition, see page 249.<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.<sup>3</sup>At least nine hours of electives must be non-technical and the number selected should be such as to give a total of 141 or 142 semester hours, depending upon whether Chem. 1a or 1b is taken.

## SECOND YEAR

C. E. 27—Surveying.....	3	C. E. 28—Topographical Surveying.....	3
Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
Phys. 1a—Physics Lectures.....	3	Phys. 1b—Physics Lectures.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 3b—Physics Laboratory.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

C. E. 51—Railroad Surveying.....	5	C. E. 60—Structural Stresses.....	4
R. E. 25—Railway Development.....	3	R. E. 31—Ry. Yards and Terminals.....	3
T. and A. M. 21—Analytical Mechanics.....	2	R. E. 34—Railway Maintenance.....	4
T. and A. M. 29—Resistance of Materials.....	5	T. and A. M. 10—Hydraulics.....	3
Non-technical Elective <sup>1</sup> .....	3	Non-technical Elective <sup>1</sup> .....	3
Total.....	18	Total.....	17

## FOURTH YEAR

C. E. 77—Masonry Construction.....	4	C. E. 80—Engineering Construction and Spec- fications.....	2
C. E. 79—Cement Laboratory.....	1	E. E. 4—Elementary Electrical Engineering.....	2
C. E. 81—Reinforced Concrete Theory.....	2	E. E. 64—Electrical Engineering Laboratory.....	1
C. E. 83—Bridge Design.....	3	R. E. 33—Railway Location.....	4
M. E. 1—Steam and Air Machinery.....	3	R. E. 51—Seminar.....	1
R. E. 32—Railway Construction.....	3	R. E. 98—Thesis (or technical elective) <sup>2</sup> .....	3
R. E. 35—Railway Signaling.....	1	Non-technical Elective <sup>1</sup> .....	3
P. E. 50—Seminar.....	1		
R. E. 99—Inspection Trip.....	0		
Total.....	18	Total.....	16

## Curriculum in Railway Electrical Engineering

## FIRST SEMESTER

	Hours <sup>3</sup>		Hours <sup>4</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	5
Math. 4—Plane Trigonometry.....	3	Rhet. 2—Rhetoric and Themes.....	3
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Engineering Lecture.....	0
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

## SECOND YEAR

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	Math. 9—Integral Calculus.....	3
M. E. 77—Foundry Work.....	3	M. E. 75—Forge Work.....	1
Phys. 1a—Physics Lectures.....	3	M. E. 79—Pattern Work.....	2
Phys. 3a—Physics Laboratory.....	2	Phys. 1b—Physics Lectures.....	2
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Phys. 3b—Physics Laboratory.....	2
Mil. 3b—Military Theory.....	$\frac{1}{2}$	T. and A. M. 20—Analytical Mechanics.....	3
		Mil. 4a—Military Drill.....	$\frac{1}{2}$
		Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

E. E. 25—Direct Current Apparatus.....	4	E. E. 26—Alternating Currents.....	4
E. E. 75—Electrical Laboratory.....	2	E. E. 76—Electrical Laboratory.....	2
M. E. 81—Machine Work.....	3	M. E. 2—Steam Engineering.....	3
Phys. 4a—Electrical and Magnetic Measure- ments.....	2	Phys. 4b—Electrical and Magnetic Measure- ments.....	2
R. E. 25—Railway Development.....	3	R. E. 60—Electric Railway Principles.....	2
T. and A. M. 25—Resistance of Materials.....	4	T. and A. M. 36—Analytical Mechanics.....	2
		Non-technical Elective <sup>1</sup> .....	3
Total.....	18	Total.....	18

<sup>1</sup> Any approved non-technical course. See page 148.<sup>2</sup> Thesis may be elected, subject to the approval of the department, by students of high standing.<sup>3</sup> Semester hours. For definition, see page 249.<sup>4</sup> Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.



## FOURTH YEAR

M. E. 11—Thermodynamics.....	3	E. F. 56—Electrical Design.....	4
M. E. 61—Mechanical Laboratory.....	2	R. E. 63—Electric Railway Laboratory.....	2
R. E. 62—Electric Railway Laboratory.....	2	R. E. 65—Electric Railway Economics.....	4
R. E. 64—Electric Railway Practise.....	3	R. E. 68—Seminar.....	1
R. E. 66—Electric Railway Machinery.....	3	R. E. 98—Thesis (or Technical Elective) <sup>1</sup> .....	3
R. E. 67—Seminar.....	1	Non-technical Elective <sup>2</sup> .....	3
R. E. 99—Inspection Trip.....	0		
Non-technical Elective <sup>2</sup> .....	3		
Total.....	17	Total.....	17

## Curriculum in Railway Mechanical Engineering

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>3</sup>		Hours <sup>3</sup>
Chem. 1a or 1b—Inorganic Chemistry.....	3 or 4	Chem. 4—Qualitative Analysis.....	4
G. E. D. 1—Elements of Drafting.....	4	G. E. D. 2—Descriptive Geometry.....	4
Math. 2—College Algebra.....	3	Math. 6—Analytic Geometry.....	4
Math. 4—Trigonometry.....	2	Rhet. 2—Rhetoric and Themea.....	3
Rhet. 1 <sup>4</sup> —Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Engineering Lecture.....	0
Engineering Lecture.....	0		
Total.....	17 or 18	Total.....	18

## SECOND YEAR

Language.....	4	Language.....	4
Math. 7—Differential Calculus.....	5	M. E. 77—Foundry Work.....	3
M. E. 75—Forge Work.....	1	Math. 9—Integral Calculus.....	3
M. E. 79—Pattern Work.....	2	Phys. 1b—Physics Lectures.....	2
Phys. 1a—Physics Lectures.....	3	Phys. 3b—Physics Laboratory.....	2
Phys. 3a—Physics Laboratory.....	2	T. and A. M. 20—Analytical Mechanics.....	3
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Total.....	18	Total.....	18

## THIRD YEAR

Math. 9a—Integral Calculus.....	2	M. E. 12—Thermodynamics.....	5
M. E. 81—Machine Work.....	3	M. E. 62—Power Measurement.....	3
R. E. 25—Railway Development.....	3	M. E. 82—Machine Work.....	2
T. and A. M. 21—Analytical Mechanics.....	2	R. E. 6—Locomotives.....	4
T. and A. M. 29—Resistance of Materials.....	5	Non-technical Elective <sup>2</sup> .....	3
Non-technical Elective <sup>2</sup> .....	3		
Total.....	18	Total.....	17

## FOURTH YEAR

E. E. 11—Direct Current Apparatus.....	3	E. E. 12—Alternating Current Apparatus.....	3
E. E. 61—Direct Current Laboratory.....	1	E. E. 62—Alternating Current Laboratory.....	1
M. E. 37—Principles of Management.....	3	R. E. 7—Advanced Design.....	3
R. E. 2—Locomotive Design.....	3	R. E. 8—Railway Laboratory.....	2
R. E. 5—Railway Laboratory.....	3	R. E. 10—Seminar.....	1
R. E. 9—Seminar.....	1	R. E. 61—Electric Traction.....	3
R. E. 99—Inspection Trip.....	0	R. E. 98—Thesis (or Technical Elective) <sup>1</sup> .....	3
Non-technical Elective <sup>2</sup> .....	3	Non-technical Elective <sup>2</sup> .....	2
Total.....	17	Total.....	18

<sup>1</sup> Thesis may be elected, subject to the approval of the department, by students of high standing.<sup>2</sup> Any approved non-technical course. See page 148.<sup>3</sup> Semester hours. For definition, see page 249.<sup>4</sup> Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

# THE COLLEGE OF AGRICULTURE

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For the *buildings* used by this College, see page 54; for a list of its *curriculums*, page 66; for *clubs auxiliary to its curriculums*, page 101; for *honors*, page 90; for *honorary societies*, page 100; for *fees and expenses*, page 111.

## GENERAL STATEMENT

This College offers curriculums to both men and women. The curriculums offered are designed for four different purposes:

First, and mainly, to train for the profession of farming.

Second, to train for the teaching of agriculture in the public schools.

Third, to train for the profession of landscape gardening.

Fourth, to train for the profession of floriculture.

The curriculums offered by the department of home economics have two purposes in view:

First, and mainly, to train young women in the science and art of household affairs.

Second, to prepare teachers for giving instruction in domestic science in high schools, and, in connection with the College of Liberal Arts and Sciences, to fit for college and university positions.

In the case of both men and women the great purpose is to prepare for the practical affairs of life. In order that technical knowledge and skill may be developed along with, and not at the expense of, those things which tend to the production of cultured and versatile men and women, the technical work is closely associated with the related sciences, and students are required to divide their time fairly with those subjects that develop general knowledge and breadth of view.

The College offers over one hundred and sixty courses of instruction in technical subjects, besides opportunity to elect from the scientific and literary offerings of the other colleges of the University.

The elective system prevails, and with a few exceptions the student is left free to select those subjects which meet his needs, always under the advice and guidance of the faculty.

Credit is given for all work accomplished; this credit counts toward graduation if the student desires a degree.

## ADMISSION

For the requirements for admission to the College of Agriculture, see the general statement of the entrance requirements of the University, pages 68-75.

## ADMISSION TO GRADUATE WORK IN AGRICULTURE

While in general it will be expected that applicants for admission to the Graduate School shall have had an undergraduate course in scientific and technical agriculture equivalent to that of the University of Illinois, yet students who are otherwise eligible for admission to the Graduate School may be admitted to graduate standing in agriculture if they have had a thoro training in the fundamental sciences, even tho their undergraduate curriculum may have lacked to some extent the amount and kind of technical work included in our course.

## SCHOLARSHIPS IN AGRICULTURE AND HOME ECONOMICS

For detailed information concerning scholarships in agriculture and home economics, see page 104.

## **FACILITIES FOR INSTRUCTION AND METHODS OF WORK**

The affiliation of the College with the Agricultural Experiment Station enables the University to support a larger faculty than would otherwise be possible, and permits a higher degree of specialization. For the most part, those who teach in the College conduct experiments in the same subjects in the Station.

The methods of instruction vary with the nature of the courses. In general the laboratory method prevails. Text-books are used when good ones are available. Laboratory and text are supplemented by lectures and reference readings.

## **AGRICULTURAL EXTENSION**

Agricultural extension work serves as the intermediary between the College of Agriculture and the Agricultural Experiment Station and the local community and the farm. Each department does extension work, and so far as possible provides special men for such work. The responsibility for the work of these men lies with their own department. For this reason not all of the extension effort issues from one office.

For administrative purposes and for the coordination of these activities through a regular channel, agricultural extension is administered as a separate department, conducting all extension enterprises which do not deal with technical subjects and cooperating with other departments in diffusing the results of their work in the State.

Some of the general extension enterprises are: Agricultural extension schools and demonstrations in different localities; the two weeks' course given annually at the College in January; helping at farmers' institutes and similar gatherings, with special railway lecture trains, at the boys' state fair school, and in educational exhibits at fairs and elsewhere; welfare work in rural communities; and excursions to the College. (See also under University Extension, Part V.)

Courses of study are offered to assist in determining what phases of agriculture are suitable for secondary school purposes and how they should be taught, and for the discussion of methods of organizing extension activities.

## **AGRONOMY**

The department of agronomy gives instruction in those subjects which relate to the field, as drainage, farm machinery, field crops; the chemistry, physics, and biology of the soil; manures and rotation in their relation to fertility; plant breeding. The department possesses equipment and facilities for instruction in these subjects, and, in addition, affords opportunities for contact with the research work of the Agricultural Experiment Station, especially in crop production, soil fertility, soil biology, and plant breeding, in the analytical and pot-culture laboratories on the soil bins and on the experiment fields at the University and in other parts of the State.

Attention is called to the fact that, if circumstances prohibit a regular four-year curriculum, it is possible for a student who has had sufficient preparatory training to arrange his studies so as to obtain the necessary prerequisites and complete the general courses in soil physics and soil fertility in two years. (See Agronomy 9 and 12.)

## **ANIMAL HUSBANDRY**

The department of animal husbandry offers courses covering the study of sheep, swine, poultry, and beef cattle and their products; heavy and light horses, with their care and training; the management of herds, flocks, and studs; feeding, breeding, and marketing; and the chemical and physiological phases of animal nutrition.

The University herds, flocks, and studs contain about six hundred pure-bred cattle, swine, sheep, and horses, and several hundred fowls, ducks, and turkeys, which are available

for class purposes. These animals are also used for investigations in feeding and breeding, and for illustration of breed types and characteristics. The breeds represented are Short-horn, Hereford, and Aberdeen Angus cattle; Poland-China, Berkshire, Duroc Jersey, Chester White, Large Yorkshire, and Hampshire swine; Shropshire, Oxford, Southdown, Hampshire, and Rambouillet sheep; and Percheron, Hackney Pony, and American Saddle horses. In addition to this pure-bred live stock, a large number of grade animals of the various classes of live stock furnish material for judging practise. In this practise, standard market classes and grades of live stock are illustrated, and instruction is given in the selection of animals according to feed-lot and market requirements. The stock pavilion offers opportunity for show and judging work. (For detailed description, see page 55.) The lectures of the various courses are supplemented by 1,000 or more lantern slides, charts, diagrams, models, and photographs. Pedigree and breed work is facilitated by 75 sets of the different herd, stud, and flock registers, and complete files of the leading American and British journals.

The equipment for instruction and investigation in the feeding, breeding, and management of live stock consists of modern buildings for the housing of beef cattle, swine, sheep, horses, and poultry, with the appliances necessary for individual and collective feeding tests; brick-paved feed lots and open sheds, in which steers may be fed in carload lots; a feed storage barn, with various forms of grinding mills and other machinery for the preparation of feed; and various kinds of harness, vehicles, and other appliances for the training of horses. The department also maintains a cold-storage room and other equipment for demonstrations in the cutting and handling of meats; a collection of wool samples, and microscopes for the study of wool. The chemistry and physiology laboratories of the department afford facilities for advanced work in animal nutrition.

### DAIRY HUSBANDRY

The department of dairy husbandry furnishes instruction in the production and care of milk and in the manufacture of dairy products. It also furnishes instruction in dairy bacteriology and dairy chemistry.

The various courses cover the application of science to dairy problems, approved methods in dairy operations, and the economic significance of these operations.

In addition to laboratories and lecture rooms, its equipment includes a farm of 160 acres with buildings; about 100 milch cows, bulls, and young stock, including typical representatives of the Ayrshire, Guernsey, Jersey, and Holstein-Friesian breeds; a manufactory with modern equipment for handling city milk and making butter, cheese, ice cream, and condensed milk; and facilities for the distribution of milk on the University milk route.

### HOME ECONOMICS

The courses given in this department are planned to meet the needs of three classes of students, viz.: (a) those specializing in other lines of work, but desiring a knowledge of the general principles and facts of home economics; (b) those who wish to specialize in home economics; (c) those who wish to specialize in teacher training under the Smith-Hughes act.

The department is housed in the north wing of the Woman's Building. The kitchen for extension work, with dining room adjoining, is in the basement. The first floor contains two class rooms, a seminar room, an exhibition room for illustrative material for work in house construction and textile fabrics, offices, and cloak rooms. On the second floor are individual, diet, institutional, and class kitchens, small and large dining rooms, chemical laboratory, two large sewing rooms, offices, and store rooms. On this floor provision is made for the study of the preparation and service of food in large quantities in the institutional kitchen and large dining room adjoining. The equipment on this floor provides

practise for those interested in the problems of lunchroom management and for dietitians. The third floor contains additional sewing rooms, offices, equipment for teaching home care of the sick, and an apartment in which the problems of house construction and furnishing and household administration are studied.

### **HORTICULTURE**

The department of horticulture offers courses in the five divisions of horticulture (pomology, olericulture, floriculture, landscape gardening, and forestry), and also in subjects dealing with all the divisions, such as plant propagation, spraying, the evolution of horticultural plants, and experimental horticulture.

For instruction in pomology, use is made of the fruit plantations maintained by the department. The orchards of different ages afford opportunities for practise in pruning and studies of tree types, while the products furnish materials for practise in the grading and packing of fruits and the study of systematic pomology. A collection of fruit packages illustrates the types used in commercial packing. There is also a collection of wax models of fruits representing the principal varieties grown in Illinois.

For olericulture, or vegetable gardening, certain areas of ground are reserved on which garden operations are illustrated and various crops are grown. The equipment also includes a greenhouse 105x28 feet, hotbed frames and sash, and an assortment of seed drills, and wheel hoes, hand tools, markers, planters, and other appliances for the growing and handling of vegetables.

The equipment in floriculture includes ten glass houses covering an area of 28,000 square feet, and a service building. Six of the houses, including the palm house, with an area of 3,200 square feet, are used for instructional work exclusively, and the other four, while intended primarily for experimental purposes, add to the facilities for instruction in floriculture as conducted on a commercial basis. Besides roses, carnations, and chrysanthemums, the houses contain a selection of plants representing all the forms used in commercial and decorative or conservatory work. The service building contains laboratories, class rooms, offices, and potting, storage, and work rooms. An assortment of florists' supplies is maintained. Floricultural periodicals, reference books, and a series of over eight hundred slides add to the equipment. The ornamental gardens maintained by the department furnish illustrative materials for students in floriculture and landscape gardening.

The equipment in landscape gardening includes four drafting rooms with desks for individuals, modern filing devices for office practise, seminar rooms, lecture rooms, offices and a library. The library contains a complete collection of books, periodicals, pamphlets, photographs of examples of foreign and American landscape gardening, and works on civic design, all carefully indexed. There is a collection of representative drawings and blueprints from the offices of practising landscape architects, and one of city maps.

The collection of trees and shrubs growing on the campus and about certain residences near the University furnishes material for plant studies in the courses in planting design. The herbarium of the division is also available for reference. A series of 3,500 lantern slides is used in lectures.

Instruction in forestry is facilitated by a collection of native woods and a forest tree plantation of about twenty acres, containing Scotch pine, white pine, Norway spruce, European larch, green ash, black walnut, hickory, bur oak, white elm, and other species.

### **REQUIREMENTS FOR GRADUATION**

Students who have satisfied the University requirements as to registration and residence and have maintained throughout their course a satisfactory record of scholarship and moral character will be graduated with the degree of Bachelor of Science, on completion of the studies of the prescribed list and sufficient electives to make a total of 130 semester hours.

A thesis is not required for graduation, but any student who has completed not less than 90 hours of credit before the senior year may then elect a thesis course in any department provided he has done not less than 20 hours' work in courses pertinent to the thesis problem, subject to the approval of the head of the department.

Graduates of approved colleges may expect to secure a degree in agriculture from the University on completion of the technical and scientific requirements. This will ordinarily require approximately two years of residence work; a minimum of one year is required.

In physical education not more than five semester hours for men and seven semester hours for women are accepted toward graduation.

## GENERAL CURRICULUM IN AGRICULTURE

### *Required for the Degree of Bachelor of Science in Agriculture*

All students except those in the special curriculums in home economics, floriculture, and landscape gardening are required to take the same work during the freshman year and part of the sophomore year. This work gives the student a correct conception of the fundamental farm practises and an insight into the technical branches of agriculture, such as animal and dairy husbandry, horticulture, farm crops, soils, farm mechanics, and buildings, and leaves the junior and senior years open for elective studies.

One hundred thirty hours are required for graduation, as follows:

Agriculture prescribed first two years.....	22 hours
Agriculture prescribed as electives.....	37 hours
<hr/>	
Total agriculture required.....	59 hours
Non-agriculture prescribed.....	41 hours
Non-agriculture prescribed as electives.....	15 hours
<hr/>	
Total non-agriculture required.....	56 hours
Open electives.....	15 hours
<hr/>	
	130 hours

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Agron. 25—Farm Crops.....	4	Agron. 25—Farm Crops.....	4		
Chem. 1—Inorganic Chemistry.....	5	or			
or		A. H. 5—Live Stock Judging.....	3		
A. H. 5—Live Stock Judging.....	3	D. H. 24—Elements of Dairy Husbandry....	3		
D. H. 24—Elements of Dairy Husbandry....	3	and			
Chem. 1a—Inorganic Chemistry.....	3	Chem. 2a—Inorganic Chemistry and Qual-			
and		itative Analysis.....	5		
Ag. Ext. 4—Elementary Agricultural Extension	1	Hort. 1b—Elements of Horticulture.....	2		
Hort. 1a—Elements of Horticulture.....	2	Rhet. 2—Rhetoric and Themes.....	3		
Rhet. 1—Rhetoric and Themes.....	3	Phys. Ed. 2—Gymnasium.....	1		
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill.....	1½		
Mil. 1a—Military Drill.....	1½	Mil. 2b—Military Theory.....	1½		
Mil. 1b—Military Theory.....	1½				
Total.....	17	Total.....	16-18		

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 75.

## SECOND YEAR

A. H. 8—Principles of Breeding.....	2	A. H. 8—Principles of Breeding.....	2
A. H. 21—Principles of Feeding.....	2	A. H. 21—Principles of Feeding.....	2
Botany 1—General Botany.....	5	Botany 1—General Botany.....	5
or		or	
Agronomy 26—Elementary Farm Mechanics.....	3	Agronomy 26—Elementary Farm Mechanics.....	3
Chemistry 13a—Elementary Quantitative Analysis.....	5	Chemistry 13a—Elementary Quantitative Analysis.....	5
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Electives.....	5-9	Electives.....	5-9
Total.....	15-18	Total.....	15-18

In addition to the prescribed subjects, students will take the following:

Agriculture, electives.....	37 hours
Non-agricultural, electives.....	15 hours
English 20.....	4 hours
Science, elective.....	5 hours
Open electives.....	15 or 17 hours

## CURRICULUM IN FARM ORGANIZATION AND MANAGEMENT

## FIRST YEAR

FIRST SEMESTER Prescribed Subjects		SECOND SEMESTER Prescribed Subjects	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Ag. Ext. 4—Elementary Agricultural Extension.....	1	A. H. 5—Live Stock Judging.....	3
Agron. 25—Farm Crops.....	4	Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3	D. H. 24—Elements of Dairy Husbandary.....	3
Hort. 1a—Elements of Horticulture.....	2	Hort. 1b—Elements of Horticulture.....	2
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 1 and 1a—Gymnasium and Hygiene.....	1	Phys. Ed. 2—Gymnasium.....	1
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Total.....	15-17	Total.....	18

## SECOND YEAR

Prescribed Subjects		Prescribed Subjects	
Chem. 13a—Elementary Quantitative Analysis.....	5	Agron. 26—Elementary Farm Mechanics.....	3
A. H. 8—Principles of Breeding.....	2	Mil. 4a—Military Drill.....	$\frac{1}{2}$
A. H. 21—Principles of Feeding.....	2	Mil. 4b—Military Theory.....	$\frac{1}{2}$
Mil. 3a—Military Drill.....	$\frac{1}{2}$		
Mil. 3b—Military Theory.....	$\frac{1}{2}$		

In addition to the above courses, the following are also prescribed:

Accountancy 11.....	4 hours
Economics 1.....	5 hours
Economics 16c.....	3 hours
Economics 26.....	3 hours
Business Law 2.....	3 hours
Elective economics, minimum of.....	9 hours
Farm Management 1.....	3 hours
Farm Management 5.....	3 hours
English 20.....	4 hours
Philosophy 1.....	3 hours
Elective science, minimum of.....	10 hours
Elective agriculture, minimum of.....	25 hours
Open electives.....	8 or 6 hours

Total prescribed..... 130 hours

To avoid conflicts it is suggested that the courses in economics, accountancy, and farm management be taken in the following order:

## SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
Economics 1.....	5	Economics 3 (Elective).....	3
Economics 26.....	3		

## THIRD YEAR

Accountancy 11.....	4	Economics 14.....	2
		Economics 16c.....	3
		Farm Management 1.....	3

## FOURTH YEAR

Economics 15.....	2	Economics 17.....	2
		Business Law 2.....	3
		Farm Management 5.....	3

<sup>1</sup>Semester hours. For definition, see page 249.

## Curriculum in Floriculture

## Required for the Degree of Bachelor of Science in Floriculture

The object of this curriculum is to fit men and women for the profession of floriculture. The laboratory exercises in the technical subjects consist of practical work in the green-houses and gardens and give the students a working knowledge of the best methods now in use.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Prescribed Subjects		Prescribed Subjects	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Chem. 1 or 1a—Inorganic Chemistry.....	5 or 3	Chem. 2a—Inorganic Chemistry and Qualita-	
Hort. 5—Plant Propagation.....	5	tive Analysis.....	5
Rhet. 1—Rhetoric and Themes.....	3	Hort. 4—Plant Houses.....	4
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Rhet. 2—Rhetoric and Themes.....	3
Mil. 1a—Military Drill.....	1½	Phys. Ed. 2—Gymnasium.....	1
Mil. 1b—Military Theory.....	½	Mil. 2a—Military Drill.....	½
		Mil. 2b—Military Theory.....	½
Total.....	13 or 15	Total.....	14

## SECOND YEAR

Agron. 9—Soil Physics.....	5	Ent. 4—Economic Entomology.....	3
Bot. 1—General Botany.....	5	Hort. 15a—Principles of Plant Growing.....	5
Engl. 20—Chief English Writers.....	4	Hort. 24a—Trees and Shrubs.....	3
Mil. 3a—Military Drill.....	½	Hort. 31—Garden Flowers.....	3
Mil. 3b—Military Theory.....	½	Mil. 4a—Military Drill.....	½
		Mil. 4b—Military Theory.....	½
Total.....	15	Total.....	15

## THIRD YEAR

Bot. 27a—Plant Physiology.....	5	Econ. 2—Principles of Economics.....	3
Hort. 15b—Commercial Crops.....	5	Hort. 7—Spraying.....	3
Hort. 24b—Trees and Shrubs.....	3	Hort. 30—Decorative Plants.....	5
		Hort. 42—Landscape Design.....	3
Total.....	13	Total.....	14

## FOURTH YEAR

Bot. 7a—Plant Pathology.....	5	Hort. 32b—Floral Decoration.....	3
Hort. 32a—Floral Decoration.....	3		
Total.....	8	Total.....	3

## SUGGESTED ELECTIVES

FIRST SEMESTER		SECOND SEMESTER	
Accountancy.....		Bot. 3a—Plant Anatomy.....	5
An. Hus. 30—Genetics.....	5	Bot. 4a—Taxonomy of Cormophytes.....	5
Economics.....		Bot. 7b—Methods of Study of Fungi.....	5
Hort. 43—Greenhouse Fertilizers.....	3	Hort. 45—Plant Nutrition.....	3
Hort. 26a <sup>2</sup> —Planting Design.....	3	Hort. 26b <sup>2</sup> —Planting Design.....	3

## Curriculum in General Home Economics

The work offered in Home Economics in the College of Agriculture falls into two groups: first, the general course in Home Economics designed for college women who wish to know the application of Home Economics to the home; second, the course in teacher training under the Smith-Hughes bill for vocational education.

Of the 130 hours required for graduation, 97 are provided for in the prescribed list and the restricted electives of List A. The other 33 hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. Holders of scholarships in home economics in this College take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the College.

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Horticulture 26a and Horticulture 26b may be taken by students in floriculture after having completed the work of courses 24a, 24b, 31, and 42 in Horticulture.



## Prescribed Subjects

## Required for Degree of Bachelor of Science in Home Economics

Art and Design 1, 12.....	5 hours
Bacteriology 5.....	5 hours
Botany 1 or Zoology 1.....	5 hours
Chemistry 1 or 1a, 2a.....	8 or 10 hours
Economics 2.....	3 hours
English 1, 2.....	8 hours
Home Economics 1, 2, 3, 5, 6, 7, 8, 10, 12, 13, 19.....	32 hours
History 1a-1b, or 3a-3b.....	6 or 8 hours
Physiology 4.....	5 hours
Physical Education 7a-7b, 8a-8b, 9.....	5 hours
Rhetoric 1, 2.....	6 hours
English or Rhetoric.....	5 hours
List A, a minimum of.....	4 hours

Total required hours.....	97 or 101 hours
Electives.....	33 or 29 hours

Total..... 130 hours

## Electives

- List A—English 12, 13, 21, 22, 23, 24  
 Horticulture 1a, 1b, 2, 3, 5, 10a, 19, 28  
 Home Economics 11, 14, 17, 18  
 Economics 22, 26  
 Sociology 1  
 Physics 7a, 8a  
 Education 1, 6, 10  
 Agronomy 7, 9, 12, 25, 26  
 Animal Husbandry 10, 5  
 Dairy Husbandry 1, 24, 4, 11, 13  
 Agricultural Extension 3, 4

## Suggested Curriculum

## FIRST YEAR

## FIRST SEMESTER

	Hours <sup>1</sup>
A. and D. 1—Freehand Drawing.....	3
Chem. 1 or 1a <sup>2</sup> —Inorganic Chemistry.....	5 or 3
Home Econ. 8—Art and Sanitation in Daily Life.....	2
Lib. Sci. 12—General Reference.....	2
Rhet. 1—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1
Phys. Ed. 9—Hygiene.....	1
Total.....	17 or 15

## Elective

Home Econ. 7—Textiles.....	2
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## SECOND SEMESTER

	Hours <sup>1</sup>
A. and D. 12—Applied Design.....	2
Chem. 2a—Inorg. Chem. and Qual. Anal.....	5
Econ. 22—Economic History of the U. S.....	3
Home Econ. 1 <sup>2</sup> —Sel. and Prep. of Food.....	3
Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1
Total.....	17

## SECOND YEAR

Bot. 1 or Zool. 1—General Botany or Zoology.....	5
Engl. 1—Survey of English Literature.....	4
Home Econ. 2—Home Architecture.....	3
Home Econ. 6—Economic Uses of Food.....	4
Phys. Ed. 8a—Physical Training.....	1
Total.....	17

Econ. 2—Principles of Economics.....	3
Engl. 2—Survey of English Literature.....	4
Home Econ. 3—House Decoration.....	3
Home Econ. 7—Textiles.....	2
Physiol. 4—General Physiology.....	5
Phys. Ed. 8b—Physical Training.....	1
Total.....	18

## THIRD YEAR

Engl. 23—Intro. to Shakespeare.....	3
Hist. 1a—Continental European History, or or Hist. 3a—History of the U. S.....	4 or 3
Home Econ. 5—Dietetics.....	3
Home Econ. 19—Dress Design.....	3
Total.....	13 or 12

Bact. 5—Intro. Bacteriology.....	5
Hist. 1b—Continental European History, or or Hist. 3b—History of the U. S.....	4 or 3
Home Econ. 12—Clothing.....	3
Educ. 1—Introduction to Education.....	4
Total.....	16 or 1

## FOURTH YEAR

Educ. 6—Secondary Education.....	3
Home Econ. 10—Household Organization and Management.....	3
Home Econ. 13—Teachers' Course.....	3
Sociol. 1—Principles of Sociology.....	3
Total.....	12

Home Econ. 9—Problems in Extension.....	3
Home Econ. 17—Problems in Textiles.....	3
Home Econ. 28—Household Organization and Management.....	2
Total.....	8

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>If Chemistry 1a is taken, a 2-hour elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.

## CURRICULUM IN TEACHER TRAINING (SMITH-HUGHES)

Of the 130 hours required for graduation, 118 are provided for in the prescribed list. The other 12 hours necessary for graduation are to be taken from the electives listed below.

## Prescribed Subjects

*Required for the Degree of Bachelor of Science in Home Economics*

Art and Design 1, 12.....	5 hours
Bacteriology 5.....	5 hours
Botany 1 or Zoology 1.....	5 hours
Chemistry 1 or 1a, 2a, 9, 9c.....	13 or 15 hours
Economics 2.....	3 hours
Education 1, 6, 10, 50.....	15 hours
English 1, 2.....	8 hours
Home Economics 1, 2, 3, 5, 6, 7, 8, 10, 11, 13, 14, 29, 30, 31, 32.....	41 hours
History 1a or 3a.....	3 or 4 hours
Library Science 12.....	2 hours
Physical Education 7a, 7b, 9.....	5 hours
Psychology 4.....	5 hours
Rhetoric 1, 2.....	6 hours
Sociology 1.....	3 hours
Total required hours.....	119 or 122 hours
Electives from list below.....	11 to 8 hours
Total.....	130 hours

## Electives (11 to 8 hours required)

Art and Design 19, 20  
Economics 26  
Home Economics 17, 18, 21, 28

## Suggested Curriculum

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
A. & D. 1—Freehand Drawing.....	3	A. & D. 12—Applied Design.....	2
Chem. 1 or 1a <sup>2</sup> —Inorganic Chemistry.....	5 or 3	Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Home Econ. 8—Art and Sanitation in Daily Life.....	2	Home Econ. 1—Selection and Preparation of Foods.....	3
Lib. Sci. 12—General Reference.....	2	Home Econ. 7—Textiles.....	2
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7—Physical Training.....	1	Phys. Educ. 7—Physical Training.....	1
Phys. Ed. 9—Hygiene.....	1		
Total.....	17 or 15	Total.....	16

## SECOND YEAR

	Hours		Hours
Bot. 1 or Zool. 1—General Botany or Zoology.....	5	Chem. 9 and 9c—Elementary Organic Chemistry.....	5
Eng. 1—Survey of English Literature.....	4	Econ. 2—Principles of Economics.....	3
Home Econ. 6—Economic Uses of Food.....	4	Eng. 2—Survey of English Literature.....	4
Home Econ. 29—Garment Making.....	3	Home Econ. 30—Designing and Making of Typical Garments.....	3
Phys. Ed. 8a—Physical Training.....	1	Phys. Ed. 8b—Physical Training.....	1
Total.....	17	Total.....	16
<i>Elective</i>		<i>Elective</i>	
Econ. 26—Economic Resources.....	3	Home Econ. 21—Weaving.....	1

## THIRD YEAR

	Hours		Hours
Hist. 1a—Continental European History or Hist. 3a—History of the United States.....	4 or 3	Educ. 1—Introduction to Education.....	4
Home Econ. 2—Home Architecture.....	3	Home Econ. 3—Home Decoration.....	3
Home Econ. 10—Household Organization and Management.....	3	Home Econ. 5—Dietetics.....	3
Physiol. 4—General Physiology.....	5	Home Econ. 31—Clothing.....	3
Total.....	15	Home Econ. 32—Dress Design.....	1
		Sociol. 1—Principles of Sociology.....	3
		Total.....	17

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>If Chemistry 1a is taken, 1 2-hour elective must be added, with the approval of the adviser.

<sup>3</sup>Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.

## FOURTH YEAR

Bact. 5—Elementary Bacteriology or Educ. 50—Practise Teaching and Home Econ. 14—Practise House.....	5 or 8	Educ. 50—Practise Teaching and Home Econ. 14—Practise House or Bact. 5—Elementary Bacteriology.....	8 or 5
Educ. 6—Principles of High School Education	3	Home Econ. 11—Teachers' Course.....	3
Educ. 10—Technic of Teaching.....	3	Total.....	11 or 8
Home Econ. 13—Teachers' Course.....	3		
Total.....	14 or 17		

	<i>Elective</i>	
Home Econ. 17—Problems in Textiles.....	3	
Home Econ. 28—Household Organization and Management.....	2	
Home Econ. 18—Lunch Room Management..	5	

## Curriculum in Landscape Gardening

*Required for the Degree of Bachelor of Science in Landscape Gardening*

A four years' course in preparation for professional practise of landscape gardening. Courses are open to any student in the University having the prerequisites of their equivalents.

## FIRST YEAR

FIRST SEMESTER <i>Prescribed Subjects</i>		SECOND SEMESTER <i>Prescribed Subjects</i>	
Arch. 31—Architectural Drawing.....	4	Arch. 32—Architectural Drawing.....	4
French 1a—Elementary course.....	4	French 1b—Elementary course.....	4
Hort. 36—History of Landscape Gardening..	3	A. and D. 12—Design.....	2
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Hort. 39a—Special Lectures.....	1½	Hort. 39b—Special Lectures.....	1½
Phys. Ed. 1—Gymnasium and Hygiene.....	1	Phys. Ed. 2—Gymnasium.....	1
Mil. 1a—Military Drill.....	1½	Mil. 2a—Military Drill.....	1½
Mil. 1b—Military Theory.....	1½	Mil. 2b—Military Theory.....	1½
Total.....	16½	Total.....	15½

## SECOND YEAR

C. E. 31—Surveying.....	3	C. E. 32—Surveying.....	3
Hort. 21a—Landscape Design.....	4	Hort. 21b—Landscape Design.....	4
Arch. 43—Working Drawings.....	3	Arch. 44—Working Drawings.....	3
Bot. 1—Introductory Course.....	5	Hort. 24a—Trees and Shrubs.....	3
Hort. 39a—Special Lectures.....	1½	Hort. 39b—Special Lectures.....	1½
Mil. 3a—Military Drill.....	1½	Mil. 4a—Military Drill.....	1½
Mil. 3b—Military Theory.....	1½	Mil. 4b—Military Theory.....	1½
Total.....	16½	Total.....	14½

## THIRD YEAR

Hort. 23a—Landscape Design.....	4	Hort. 23b—Landscape Design.....	4
Hort. 24b—Trees and Shrubs.....	3	Hort. 26a—Planting Design.....	3
Hort. 27a—Landscape Construction.....	3	Hort. 27b—Landscape Construction.....	3
Engl. 20—English Writers of the 19th Century	4	Pub. Sp. 2—Public Speaking.....	2
Pub. Sp. 1—Public Speaking.....	2	Hort. 31—Garden Flowers.....	3
Hort. 39a—Special Lectures.....	1½	Hort. 39b—Special Lectures.....	1½
Total.....	16½	Total.....	15½

## FOURTH YEAR

Hort. 25a—Landscape Design.....	5	Hort. 25b—Landscape Design.....	5
Hort. 26b—Planting Design.....	3	Hort. 38—Contracts and Specifications.....	1
Hort. 37a—City Planning.....	3	Hort. 37b—City Planning.....	3
Hort. 39a—Special Lectures.....	1½	Hort. 40—Care of Plant Material.....	3
Total.....	11½	Hort. 39b—Special Lectures.....	1½
		Total.....	12½

Note: Registration in Horticulture 39 is required of professional students in each semester. Transfer students are not required to make this work up during the course though they are required to offer an equivalent number of hours of horticulture for graduation.

## SUGGESTED ELECTIVES

Arch. 13—History of Architecture.....	2	Arch 14—History of Architecture.....	2
Arch. 15—History of Architecture.....	2	Arch. 16—History of Architecture.....	2
Bot. 4d—Taxonomy.....	3	Soc. 7—The Social Problems of the Rural Community.....	2
Hort. 29a—Garden Design.....	3	Hort. 29b—Garden Design.....	3
Geology 1—General Geology.....	5	Zool. 16—Economic Ornithology.....	2
C. E. 55—Roads and Pavements.....	2	A. and D. 10—Sketching.....	1
Rhet. 10—Business Writing.....	2	Rhet. 10—Business Writing.....	2

<sup>1</sup>Semester hours. For definition, see page 249.

**CURRICULUM FOR PROSPECTIVE TEACHERS OF AGRICULTURE**

A curriculum is offered for prospective teachers of agriculture. Among the subjects recommended are the following:

Agronomy 2, 9, 12, 25, 26; Animal Husbandry 1a, 2a, 4a, 5, 6, 11a, 11b, 30;<sup>1</sup> Dairy Husbandry 2, 3; Horticulture 1a, 1b, 3, 5, 10a, 19; Agricultural Extension 1, 4; Botany 1, 3b; Chemistry 1, 2, 3, 13a; Entomology 4; Zoology 1; English 20; Rhetoric 1-2, 19; Public Speaking 5-6; Economics 2; Education 1, 6; Library Science 12; Military 1, 2; Physical Education 1, 2, 1a; Foreign language.

For further information concerning this curriculum, address the Dean of the College of Agriculture.

**TWO WEEKS' COURSE IN AGRICULTURE**

The Corn Growers' and Stockmen's Convention is held annually at the College of Agriculture the last two weeks in January. At the time of this convention the College usually gives instruction for two weeks in subjects of special interest to young men on the farm, such as corn and stock judging, milk and seed testing, soils, etc. A morning session of two hours each day is devoted to the discussion of questions of importance to the farmer. In the afternoon an hour is given to lectures upon topics of general interest. The rest of the day is filled with class work in the subjects mentioned above. Each year about a thousand men who are unable to spend a longer time away from home avail themselves of this opportunity to come in touch with the work of the College.

**Admission to Short Courses**

No entrance examinations are required and any farmer or farmer's son or daughter may enter these courses. It is important that everyone should be here at the opening of the session. On arrival at Champaign or Urbana, application should be made at the University Young Men's Christian Association, where information concerning board and room may be obtained.

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<sup>1</sup> Students taking the Curriculum for Teachers may take Animal Husbandry 30 for one-half semester and receive  $2\frac{1}{2}$  credits therefor.

# THE GRADUATE SCHOOL

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## THE EXECUTIVE FACULTY

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EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY (*on leave*)

DAVID KINLEY, Ph.D., LL.D., *Professor of Economics and Acting President*

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ARTHUR HILL DANIELS, Ph.D., *Professor of Philosophy and Acting Dean of Graduate School*

ALBERT PRUDEN CARMAN, A.M., D.Sc., *Professor of Physics*

ROBERT DANIEL CARMICHAEL, Ph.D., *Associate Professor of Mathematics*

JULIUS GOEBEL, Ph.D., *Professor of Germanic Languages*

HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology*

LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History*

HERBERT WINDSOR MUMFORD, B.S., *Professor of Animal Husbandry*

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor of Chemistry*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of Classics*

ELLERY BURTON PAINE, M.S., E.E., *Professor of Electrical Engineering*

STUART PRATT SHERMAN, Ph.D., *Professor of English*

ARTHUR NEWELL TALBOT, C.E., *Professor of Municipal and Sanitary Engineering*

HENRY BALDWIN WARD, Ph.D., *Professor of Zoology*

CHARLES MAXWELL MCCONN, A.M., *Registrar, Secretary of the Faculty*

## HISTORY AND ORGANIZATION

The University of Illinois offered facilities for advanced study and research in various lines as early as 1872. Organized graduate instruction, however, under the name of the Graduate School, was first undertaken in 1892. In 1894 the administration of the school was vested in the Council of Administration, and the Vice-President of the University became Dean of the School. In 1906 the Graduate School was organized with a separate faculty, consisting of a dean and members of the University faculty assigned to this duty by the President.

By action of the Trustees the teaching faculty of the Graduate School includes all members of the University faculty who give instruction in approved graduate courses. The affairs of the School, however, are in charge of the Executive Faculty appointed each year by the President.

## ADMISSION

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty, as hereinafter provided. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. Such candidacy is determined by the Faculty after the student has demonstrated by his work here, for from two to five months, that he has the ability to do major work of graduate character. A mere accumulation of "credits" or "grades" is not sufficient.*

A graduate of an institution meeting the requirements of a standard college, as described below, may be admitted to the Graduate School, provided he satisfies the Dean and the departments concerned that he will be able to proceed to the master's degree in a period not exceeding two years.

For purposes of admission to the Graduate School a *standard college* is one which meets the following requirements:

1. An enrollment of not fewer than one hundred students of college grade, with an average for a series of years of at least twenty-five percent registered in the junior and senior classes.

2. A graduation requirement of four years (120 semester hours) of collegiate grade.

3. A minimum entrance requirement of 14 units. By the minimum requirement is meant the smallest number of units with which a student may be permitted to begin college work, i. e., the nominal requirement minus the number of units of conditions allowed.

4. A requirement that all entrance conditions must be removed before a student may be permitted to begin a second year of work in the same institution.

5. Not less than eight distinct departments in liberal arts and sciences, with at least one professor giving full time to college work in each department.

6. A minimum educational attainment of all college teachers of academic subjects equivalent to graduation from a college of high grade and graduate work equal to that required for the master's degree at the University of Illinois.

7. A maximum of 16 semester hours per week required of college teachers.

8. A maximum enrollment of 30 students in recitation or laboratory sections.

9. Buildings and equipment of the value of at least \$100,000.

10. A productive endowment sufficient to yield a net annual income of at least \$10,000 available for instructional purposes in the college department (liberal arts and sciences). If the institution offers courses in addition to the usual liberal arts course, it shall have a correspondingly larger income.

11. A library of not less than 10,000 bound volumes in addition to public documents.

12. Laboratory equipment of a value of not less than \$3,000 in physics (\$4,000 if work is offered in advance of one-year course), \$2,500 in chemistry, and \$2,500 in biology.

13. In addition to the foregoing specific requirements, the general standard of the administration and faculty shall be considered.

Admission to graduate courses may be granted only to those who have had the requisite undergraduate work in those courses or departments. But a student of mature age who satisfies the Dean and the department concerned of his ability to pursue graduate work in a given line may be enrolled in particular graduate courses, without reference to a degree, and permitted to carry on such study or investigation under the direction of a department of the University as the department shall recommend and the Dean approve.

Application blanks for admission may be secured from the Registrar of the University. Every applicant must submit with his application for admission an official transcript of his college record.

## REGISTRATION AND PROGRAM OF STUDY

The following regulations concerning registration and program of studies are laid out primarily for first-year students. Second-year and third-year graduate students fill out their programs irrespective of the unit value of courses, according to their needs, under the advice of their instructors.

*Registration.*—Each graduate student must register when he first connects himself with the University, and afterwards at the beginning of each semester.

The registration of a new student may be accepted at any time provided the student is prepared to take up courses actually under way. Credit towards the fulfillment of the residence requirement dates, however, from the time of registration and not from the beginning of the semester or year in which the student enters. Registration will not be permitted later in the year than April 1, except in the case of students who expect to continue through the summer session, or are returning to complete a year's work which has been broken into by illness or other unavoidable interruption.

The first registration, or that upon entrance, is permitted only after the student's application for admission to the Graduate School, setting forth his educational attainments, has been duly approved.

*Advisers.*—The person in charge of the major work of the student becomes his adviser, and, together with those with whom the student is taking first and second minor courses, forms a committee with general supervision over the student's general course of study. This committee is expected to follow the student's work, to assist him in planning his course and to give him such advice as may be necessary concerning his scholastic career.

*Undergraduate Courses Open to Graduate Students.*—Courses to which sophomores are regularly admitted may not be taken for graduate credit, either major or minor.

*Unless otherwise specified on the student's program by the department concerned,* a course for graduates and advanced undergraduates, not open to students below senior grade and counting four or five hours of undergraduate credit, if taken by graduate students, will be treated as a unit course; when counting less than four hours of undergraduate credit, such a course, if taken by graduate students, will be treated as a half-unit course.

*Unless otherwise specified on the student's program by the department concerned,* a course the prerequisites of which are such as make it possible for juniors to be admitted, if taken by a graduate student, is counted as a half-unit course where the undergraduate credit is four or five hours, or a quarter-unit course where the undergraduate credit is two to three hours.

*Transfer of Undergraduate Credit.*—No credit earned during the undergraduate course may be transferred for graduate credit, unless such credit was earned in time additional to the time normally required for the bachelor's degree, in the second semester of senior year, and then only for minor subjects, and on petition. When undergraduate courses with variable semester hours are counted for graduate credit, the transfer is made on the basis of one unit for four semester hours.

If at the end of the first semester of his senior year a student has so far completed his work for the bachelor's degree that his program for the second semester is not full, he may elect one or more graduate courses. But such election must be in accordance with Graduate School rules and must be approved by the Dean. In no case may courses be counted for graduate credit on a program which requires more than twelve formal class, lecture, or laboratory exercises a week, without petition.

*Failures.*—A graduate student who fails in any course in his major subject cannot secure his degree in the same year in which the failure occurred. No condition examinations are given graduate students.

*Students on the Staff.*—Assistants and others on the University staff who undertake to do graduate work are permitted to take an amount of work determined by the terms of their employment. Such a student, if required by his engagements to teach more than five classes a week or to have laboratory work or supervision exceeding ten hours a week, may not receive his master's degree at the end of one year, nor his doctor's degree at the end of three.

The enrollment of a member of the staff is subject to the approval of the officer to whom he is responsible as a member of the staff and of the Dean of the Graduate School with reference to the amount of work to be taken. Before credit may be recorded for such graduate student at the end of a semester, the head of the department in which he is employed, or some one authorized by the head, must certify that the time given to graduate work by the student has not impaired the work for which he is paid by the University.

*Residence and Work Done Elsewhere.*—Continuous residence and study are required of all members of the Graduate School, unless they are granted leave of absence by the Dean, upon recommendation of the professor in charge of their work, for the purpose of carrying on elsewhere studies or investigation in the line of work for their degrees.

Students should note that all the work for the master's degree must be done in residence at the University, excepting in the case of members of the staff who have spent half of their time in study through a year at some other institution, and then do the rest of the work required during a year in residence here. This privilege is extended also to high school teachers residing and employed in Urbana or Champaign.

Credit for work done elsewhere is not transferred. The candidate is examined here on all the work required for the degree.

*Withdrawal.*—If after registration a graduate student wishes to withdraw from any course or to add other work, he must first secure the necessary papers from the Dean's office. See the regulations concerning changes in study lists, page 11, in the Graduate School Circular. If he wishes to withdraw from the University he must get clearance papers at the Dean's office.

## DEGREES

### MASTER'S DEGREES

*Character of Master's Degrees.*—The master's degree conferred depends upon the character of the bachelor's degree. The usual practise is that A.M. shall follow A.B., that M.S. shall follow B.S. However, this practise may be departed from in cases where the undergraduate course of study of the candidate was of a kind for which some reputable institutions in this country give A.B., while others give B.S. Such departure from the regular practise is permitted, however, only on individual petition duly approved.

*Amount of Work Required.*—Candidates for the degree of Master of Arts or Master of Science are required to do at least one full year's work in residence, including a thesis. By this is meant from four to five unit courses each semester, or their equivalent. A unit course is one which requires ten hours of time a week through one semester, or a minimum of 180 hours irrespective of the mode of distribution of that time in class work, laboratory work and private study. Four such courses or their equivalent constitute a full *minimum* program for one semester, and eight such courses, or their equivalent, constitute the *minimum formal* year's work accepted for a master's degree. Only first-rate students are permitted to secure a degree with this minimum program.

Unless otherwise permitted, on individual petition duly approved, every student must take each semester at least one course open to graduate students only (courses numbered 100 and upwards).

In the first year of his graduate study each student is required to attend a minimum of four formal class, lecture, or laboratory exercises a week. In no case is he permitted during his course to attend more than twelve a week, without permission.

*Majors and Minors.*—A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. For a master's degree a major is at least half the work, or a minimum of four units, for one year. Less than one unit may not be counted as satisfying the requirements of a minor without the approval of the department concerned.

A program of studies for a first-year graduate student which is limited exclusively to the investigation of a single problem will not be approved.

*Foreign Language.*—The ability to use one or more of the modern languages ordinarily studied in the undergraduate curriculum is expected of all candidates for the master's degree, and in some lines of study is required. On this matter students should consult the heads of the departments in which their major subjects lie.

*Master's Thesis.*—Each candidate for a master's degree is required to present a thesis on some subject approved by the professor in charge of his major work and the Executive Faculty of the Graduate School. The requirement of a thesis may be waived, however,



upon the recommendation of the head of the department in which the student is doing his major work and the approval of the Dean, provided application to waive the thesis is made at the beginning of the year. *In no case will permission to take the degree without the thesis be given by the Dean if applied for later than the latest date for the approval of thesis subjects, as shown by the calendar.* A student excused from writing a thesis must replace it with additional courses of instruction.

No one will be excused from writing a thesis unless one-half of his program of studies consists of courses numbered 100 and upwards.

Students working for their master's degrees in the summer session must announce their thesis subjects not later than the beginning of their third session in residence.

Students who expect to take their master's degree in October and February must announce their thesis subjects not later than two months after their first enrollment.

The thesis required from a candidate for a master's degree ordinarily will demand one-fourth of the student's time and may not exceed one-third of it. The thesis must be type-written, on "thesis paper,"<sup>1</sup> and the title page must be printed. The thesis in its final form, together with a certificate of approval by the proper officer, must be left by the professor in charge at the Dean's office at the time set in the calendar. No article prepared for another use, or previously published, will be accepted as a thesis.

Under proper conditions a student may be permitted to complete the last fourth of his work, if devoted to his thesis, under leave of absence. To get such permission the student must have secured credit for at least six units; must petition for the privilege; must submit to the Dean an outline of the proposed investigation, approved by the head of his major department; and must submit satisfactory evidence that adequate facilities are available to him at the place where he intends to do the proposed work. Approval on all these points must be obtained one collegiate year before the thesis is due.

*Graduate Study in the Summer.*—Graduate students in the summer session are subject to the same scholastic requirements as those in the regular University year. Their study lists must be approved by the Dean of the Graduate School, or his representative. Attendance on four summer sessions of nine weeks each, or one semester and two summer sessions of nine weeks each, is considered the equivalent of one year in residence. If in these sessions the required amount of work is properly done a master's degree may be earned in this way. The faculty is unwilling to accept summer-session work beyond the master's degree towards the doctor's degree, except in the case of a student who works in a summer session preceding or following a regular year's attendance at the University. In no case may the last year's work for the doctorate be done in disconnected summer sessions.

No course offered in the summer session may be taken for credit towards a higher degree unless it is specially described in the summer-session circular as accepted for that purpose.

Graduate students in the regular summer-session period are credited with only 8 weeks towards the fulfillment of the time requirement for the master's degree. It is necessary, therefore, for those who take work through four summer sessions for this degree to complete the residence requirement of thirty-six weeks by taking four additional weeks. This may be done at any summer session by continuing work after the close of the regular session, under the direction of the instructors with whom the student is working. The student is examined on the work thus done as on all other work, and must report his additional work to the Dean.

*Summer Work in Medical Sciences.*—Graduate courses in medical sciences are offered in the summer quarter between June and September at the College of Medicine of the University of Illinois in Chicago. Circulars describing the courses offered and conditions of admission and work may be obtained from the Secretary of the College of Medicine, Congress and Honore Streets, Chicago.

<sup>1</sup> No other will be accepted by the Dean. "Instructions for the preparation of theses" may be obtained at the Dean's office.

*Marine Biological Laboratories.*—Students in zoology, candidates for the master's degree, part of whose necessary preparation is experience in a marine or fresh-water biological laboratory or station, are permitted to offer, in part fulfillment of the requirements for the master's degree, work done in such fresh-water or marine laboratory; provided that the student who wishes to have such work accepted make application before beginning work in such laboratory; that the selection of the laboratory at which he is to work has been approved by the faculty beforehand; that the time to be spent in such work be not less than six nor more than nine weeks in any one summer; that the instructors under whom the student is to work have been previously accepted by this faculty; that he submit to an examination here on the work done at such laboratory; and that a certificate of attendance from a proper officer of the laboratory or station be submitted and a full written report of the work done in the shape of notes, or otherwise, be required; and that the student shall be in residence here at the University for one full academic year during which he shall do the rest of the work necessary for his degree.

The marine biological laboratories which have thus far been approved as institutions at which students of this University may take work for record here are:

*Marine Stations:*

Marine Biological Laboratory, Woods Hole, Massachusetts  
 Harpswell Marine Laboratory, Casco Bay, Maine  
 Puget Sound Station, Friday Harbor, Washington  
 Hopkins Marine Laboratory of Stanford University, Pacific Grove, California  
 Scripps Institute for Biological Research, University of California, La Jolla, California  
 Carnegie Institution Laboratory, Dry Tortugas, Florida  
 Bermuda Biological Station, Bermuda  
 Brooklyn Institute Biological Laboratory, Cold Spring Harbor, L. I.

*Fresh-Water Stations:*

Douglas Lake Station, University of Michigan, Topinabee, Michigan  
 Ohio State University Laboratory, Cedar Point, Ohio  
 University of Wisconsin Lake Laboratory, Madison, Wisconsin

Similar arrangements are made, under similar conditions, for students of geology in connection with Geological Surveys.

## MASTERS' DEGREES IN ENGINEERING

Two classes of second degrees are open to graduates of the College of Engineering, namely, academic and professional.

The academic second degree in engineering is Master of Science, following Bachelor of Science, in architecture, architectural engineering, civil engineering, electrical engineering, etc. This degree is conferred in accordance with the regulations described above for *academic work in residence only*.

The *professional* second degrees in engineering are as follows:

Master of Architecture, after B.S. in architecture.

Architectural Engineer, after B.S. in architectural engineering.

Civil Engineer, after B.S. in civil engineering or B.S. in municipal and sanitary engineering.

Electrical Engineer, after B.S. in electrical engineering.

Mechanical Engineer, after B.S. in mechanical engineering.

Engineer of Mines, Civil Engineer, Electrical Engineer, or Mechanical Engineer, after B.S. in mining or railway engineering, according to the course.

Professional degrees are conferred on two classes of candidates; (1) graduates of the College of Engineering of the University of Illinois who have been engaged in acceptable professional work away from the University for a period of not less than three years after

receiving the degree of Bachelor of Science; (2) graduates of the University of Illinois, or of institutions of equal standing, who have been engaged in acceptable professional work in residence at the University for a period of not less than three years after receiving the degree of Bachelor of Science.

In "acceptable professional work" may be included contributions to technical literature, activity in professional societies, investigation of engineering problems, and the teaching of engineering subjects.

A candidate must declare his candidacy and file with the Dean of the College of Engineering, as chairman of the committee in charge, a detailed statement covering his professional study and experience, not later than the first Monday in November preceding the commencement at which he proposes to qualify. Prior to December 31 next succeeding, he must submit for approval an outline of his proposed thesis and he must file his completed thesis not later than April 1. If the statement of professional experience and study and the thesis are accepted, the candidate must present himself at commencement in order to receive the degree.

Candidates for professional engineering degrees who already hold the degree of Master of Science may qualify for the professional degree after two years of professional work.

A candidate for a professional engineering degree must pay the incidental fee of thirty dollars on being notified that his professional study and experience are accepted as qualifying him to enter as a candidate for the degree. No one will be enrolled as a candidate for the degree at the following commencement who does not pay his fee at this time. When a candidate for a professional engineering degree has once been accepted and paid his fee, he is eligible to receive the degree at any time within five years, without additional fee, on completion of the requirements; provided, however, that unless he completes the requirements within two years his name will be dropped from the list of candidates and in order to receive the degree within the five-year period he must register once more.

### The Degree of Doctor of Philosophy

*Majors and Minors.*—The requirements for the degree of Doctor of Philosophy are a thorough mastery of a selected field of study, evidence of the power of independent investigation in this field, a broad knowledge of the wider field of study of which this major subject is a part, a general acquaintance with related fields of knowledge, and a mastery of all branches of study which are necessary to a full knowledge of the main subject. Each student who is seeking this degree is expected to choose for study and final examination a major subject, or field of study, and a first and second minor. The major subject is the field in which the student expects to become expert and an authority. The first minor must be a subject closely related to the major and may, under certain conditions and with proper approval, be a subdivision of the major field of study. The second minor should be chosen outside of the major field of study, and must be so chosen by a candidate who elects a division of his major field for his first minor.

*Period of Study.*—The *minimum* period of study required for securing the degree of Doctor of Philosophy is three years, during which the student is required to devote all his working time to his studies. All three years must be spent in residence at some accredited educational institution and either the first two or the last one of the three must be spent at the University of Illinois. The degree is conferred, however, not for residence during a certain period, but for scholarly attainments and power of investigation, as proved by thesis and examinations.

Credit for work done in other universities is not "transferred." The candidate is examined here on the subjects offered by him for the advanced degree. However, his period of residence at another institution of proper grade may be accepted in fulfillment of the residence requirement of the University of Illinois, so far as it goes.

*Preliminary Examination.*—Towards the end of his second year of study, or, by special permission, at the beginning of his third year, the candidate for the degree must submit to a preliminary examination, in order to determine whether he will be accepted as a candidate for the degree in the following year. This examination is intended to test the student's knowledge of the fields of his major and minor subjects of study only. It is partly oral, and may be wholly so.

*Language Examination.*—The candidate will be required to demonstrate his ability to read French and German and other languages needed in his work. This test of proficiency in the use of French and German takes place not later than the time of the preliminary examination for admission to candidacy.

*Final Examination.*—On or before the last Monday in May of the year in which the candidate expects to come up for his degree, he must submit to a final examination, given by a committee appointed by the Dean. This examination is primarily on the research work of the student, as embodied in his thesis, but it is not confined to that. It extends to the whole field of the study of the candidate. It will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the fields of knowledge represented by his course of study.

The final examination may not be divided. The examination must be taken all at one time even tho it requires several sessions.

*Other Examinations.*—Before the candidate is admitted to the final examination and the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied. If, after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

The above examinations are in addition to those in the courses for which the student is registered. These must be taken at the times for which they are set in the examination schedule.

No candidate who does not secure a record of B or higher in at least three-fourths of his work will be recommended for the degree.

*Thesis.*—The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The doctor's thesis must be printed and one hundred copies deposited in the Library of the University by the candidate, not later than the first of June preceding the conferring of the degree. In form, the printed thesis must follow the "instructions for the preparation of masters' and doctors' theses", copies of which may be obtained at the Dean's office on application. If it is not printed by the first of June, the student must, not later than that date, deposit seventy-five dollars (\$75) or a bond for that amount satisfactory to the Comptroller of the University and the Dean of the Graduate School. A member of the faculty of the University of Illinois will not be accepted as a guarantor on such a bond. If a bond is accepted, it must be replaced at the end of one year with a cash deposit. At the end of two years, if the thesis has not then been printed by the student, the University will print it or such part of it as is deemed best.

The cash deposit made by the student who does not print his thesis by the end of the second year after his degree is conferred becomes the property of the University, to be used for the general purpose of printing theses.

*Doctor's Degree in Engineering.*—The degree of Doctor of Philosophy in Engineering is offered in certain lines of academic work of a high scholastic type in engineering science for students who wish to prepare themselves as teachers, investigators, and experts.

The general requirements for this degree, as to preliminary education, linguistic attainments, etc., are the same as in other lines.

The following lines of engineering science are open as majors:

- Engineering mechanics
- Steam engineering
- Hydraulic and sanitary engineering
- Electrical engineering
- Heating and ventilation engineering
- Railway engineering
- Masonry construction and structural engineering
- Coal-mining engineering

The first minor may be any of the above or one of the following fundamental sciences or an authorized combination of two of them:

- Theoretical mechanics
- Mathematics
- Thermodynamics
- Chemistry
- Geology
- Physics (experimental or mathematical)
- Zoology
- Botany

The second minor should be in other than engineering subjects.

## SCHOLARSHIPS AND FELLOWSHIPS

A number of scholarships and fellowships have been established by the Trustees of the University. To first-year graduate students of ability and promise there are open a number of scholarships with a stipend of \$300 each and freedom from tuition, incidental, and laboratory fees. To second-year and third-year graduate students, that is, those who have had one or two years of graduate study, there are open fellowships with a stipend varying from \$350 to \$500, with freedom from the above-mentioned fees. The larger stipends are given only to students who are expected to take their degrees within the year. Each holder of a fellowship or scholarship must pay the matriculation fee of ten dollars, unless he holds a first degree from the University of Illinois, and also the diploma fee of five dollars on receiving his diploma.

Candidates for these scholarships and fellowships must be graduates of the University of Illinois, or of colleges or universities having equivalent requirements for bachelors' degrees.

Application must be made on blanks to be obtained from the Dean of the Graduate School. These application forms should be sent to the Dean of the Graduate School as early as possible in February of the academic year preceding that for which the fellowship is desired. No application will be considered if received later than March first, until after April fifteenth, the date when appointees from the first list of applicants must accept or refuse their appointments.

Persons appointed are notified on April first and must send the Secretary of the Board of Trustees notice of their acceptance or refusal by April fifteenth; and must agree that, if accepted, the appointment will not be resigned to take a similar one in any other institution during the year for which it is awarded.

Nominations to fellowships are made on the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself. Scholarships and fellowships are not given to candidates who are over thirty years of age at the time when the appointment is to be made.

For second-year fellowships, adequate preparation in French, and for third-year fellowships, adequate preparation in French and German is required.

An appointment as honorary fellow, without stipend, may be made as specified for paid fellowships in the case of any one who has shown distinguished merit in his work.

### **The Carr Fellowship in Chemistry**

The Honorable Robert F. Carr, of the class of 1893, gave in 1919 the sum of ten thousand dollars, the income of which is to be used as the stipendium of a fellowship in chemistry or chemical engineering.

### **Research Graduate Assistants in the Engineering Experiment Station**

The Engineering Experiment Station is devoted entirely to research. Its purposes are the study of problems of special importance to engineers and to manufacturing, railway, mining, and industrial interests, and the stimulation and elevation of engineering education.

Fourteen research graduate assistantships have been established in the Engineering Experiment Station. These graduate assistantships are open to graduates of approved technical schools and universities. There is a stipend of \$500 a year for each. Applicants to whom these graduate assistantships are awarded are required to agree to hold them for two years, devoting one-half of their time to the work of the Engineering Experiment Station. At the expiration of this period, if all requirements have been met, the degree of Master of Science will be conferred.

Applications for these graduate assistantships should be made to the Director of the Engineering Experiment Station not later than February first. Candidates must present with their applications full information concerning themselves, including any written or published papers or results of investigation.

### **THE GRADUATE CLUB**

The Graduate Club is an unofficial organization of the graduate students and graduate faculty. Its purpose is to furnish an opportunity for those working in different departments to become acquainted with one another and thus counteract the tendency toward narrowness which intense specialization may sometimes induce.

### **THE ILLINOIS HISTORICAL SURVEY**

The Illinois Historical Survey is a department of the Graduate School established in 1910 to conduct research in the history of the State of Illinois. The members of the staff, assisted by graduate students, are engaged in the production of scientific studies in Illinois history, and it is expected that the results of these labors will lay a solid basis for the interpretation of the State's past.

The following persons constitute the staff of the Survey for the year 1919-1920: Clarence W. Alvord, Ph.D., Professor of History, Director; Arthur C. Cole, Ph.D., Assistant Professor of History; Theodore Calvin Pease, Ph.D., Associate in History; Esther Mahr Dole, Research Assistant.

**GRADUATE WORK IN THE SUMMER SESSION**

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

# THE LIBRARY SCHOOL

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For a description of the *Library Building*, see page 56; for an account of the *libraries* themselves, see page 59; for the *collection in library economy*, see page 64; for *fees*, see page 111.

## GENERAL STATEMENT

The Library School offers a two-year curriculum to the students who wish to enter librarianship as a profession, and certain library courses to students in other schools and colleges of the University who may wish to elect them as a part of their course of training. The instruction in the first or junior year covers the generally accepted methods and practices in library work; students who complete this year's work are prepared to accept positions in library service. In the second or senior year emphasis is placed on historical and comparative methods of treatment; new subjects are introduced to give the student the necessary outlook and equipment for more responsible positions.

Altho stress is laid on simplicity and economy, methods are taught to enable students to work in large libraries where bibliographic exactness is required. Emphasis is laid on the extension of the activities of the public library, and on the importance of cooperation between the library and the schools and other educational and social agencies.

A member of the senior class in any other school or college of the University may, with the approval of the Director of the Library School, elect any course for which he is prepared.

The school also offers to freshmen and sophomores a course on the use of the University library and the ordinary reference books.

## ENTRANCE REQUIREMENTS

Admission to the Library School is conditioned on the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training. No entrance examinations are required.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, generally not later than August 1. It is to the candidate's interest to present application and certificates early, in order that the question of admission may be settled before he comes to Urbana.

## RECOMMENDED PRELIMINARY CURRICULUM

Undergraduates who intend, on the completion of their college work, to apply for admission to the Library School, are requested to select their courses so as to conform in general to the following recommended program of studies preparatory to library work.

English literature, 10;<sup>1</sup> rhetoric, 6.  
Latin, 8, in addition to four years of high school Latin.  
German, 12, in addition to two years of high school German.  
French, 8, in addition to two years of high school French.  
German and French begun in college instead of in high school should be continued for a longer period.  
Medieval and Modern European history, 6; history of England, 6; history of the United States, 6.  
Economics, 6; political science, 4; sociology, 6.  
Philosophy, 4; general psychology, 4.  
Zoology, 6; botany, 4; chemistry or physics, 6.

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<sup>1</sup> The figure after each subject denotes the minimum number of semester hours which the student should devote to that subject.



The total of this work is 102 semester hours, leaving the equivalent of about one year of a four-year course free for work in other subjects or for more work in the subjects named.

### ADVANCED STANDING

College graduates who have had approved library experience or who have attended other library schools may be accorded advanced standing by securing credit for some of the courses required for graduation. After satisfying all entrance requirements and after matriculation, the applicant for advanced standing may secure such credit either by examination or by transfer of credits from an approved institution offering courses in library economy. (See page 75).

### SPECIAL STUDENTS

It is the practise of this School to admit as special students only those mature persons who, tho unable to meet the formal requirements for entrance, are prepared for thoro and advanced work. Such persons must present evidence of possessing the information and ability to pursue profitably, as special students, the chosen subjects, and some substitute for the regular requirements for entrance, such as the completion of part of a college course, approved library or teaching experience, or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the curriculum prescribed for those who are candidates for the degree of Bachelor of Library Science.

### PREPARATION FOR SPECIAL LIBRARIES

For the benefit of students who plan to work in special libraries, a modification of the senior course may be permitted. A student who has satisfactorily completed the work of the junior year may petition for such modification, provided he intends to work in a business, technical, agricultural, or other special library, and provided his undergraduate courses included a sufficient number in the field in which he expects to specialize. In such instances, the faculty may permit the student to substitute for certain of the Library School courses, such electives in the various colleges of the University as will fit the student for special library work in the subject selected.

### LIBRARY VISITS AND FIELD WORK

Each year all the students in the School visit the libraries and certain of the book binderies, book stores, and printing establishments of either Chicago and vicinity or St. Louis and vicinity. During this visit, which occupies one week, the students are accompanied by members of the faculty.

The estimated expense of this visit is about \$25 for each trip. Students are required to present a written report of the week's visit on their return to the University, as the work forms part of Library 22 and Library 26.

In order to assure a varied library experience, each student in the senior year is required to spend one month in an assigned library, usually a public library, working, as far as practicable, under the same conditions as a member of the staff of that library, but without compensation. Written and oral reports of the month of field work are required, as the work forms part of Library 26. The estimated expense for the month of field work has been about \$45.

### CURRICULUM

The curriculum is two years in length. For graduation a student must receive credit for all courses except those marked with an asterisk (\*), which are elective. The degree

of Bachelor of Library Science is conferred on a student who has completed the required work in the two years' curriculum, and has received credit in courses amounting to 62 semester hours.

FIRST SEMESTER		JUNIOR YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>		Hours <sup>1</sup>
Lib. Sc. 2a—Reference.....	3	Lib. Sc. 2b—Reference.....	3		
Lib. Sc. 3a—Selection of Books.....	2	Lib. Sc. 3b—Selection of Books.....	2		
Lib. Sc. 16—Order of Accession.....	2	Lib. Sc. 30—Practise.....	3		
Lib. Sc. 17—Classification.....	3	Lib. Sc. 7—History of Libraries.....	2		
Lib. Sc. 18—Cataloging.....	3	Lib. Sc. 19—Trade Bibliography.....	1		
Lib. Sc. 23a—Library Administration.....	1	Lib. Sc. 21—Printing, Binding, Indexing.....	2		
Lib. Sc. 20—Loan Department.....	1	Lib. Sc. 22—Library Extension.....	3		
		Lib. Sc. 23b—Library Administration.....	1		
Total.....	15	Total.....	17		
SENIOR YEAR					
Lib. Sc. 41a—Subject Bibliography.....	1	Lib. Sc. 41b—Subject Bibliography.....	1		
*Lib. Sc. 8—Advanced Reference.....	2	Lib. Sc. 9—History of Books.....	2		
Lib. Sc. 40a—Practise.....	3	Lib. Sc. 40b—Practise.....	3		
Lib. Sc. 13a—Public Documents.....	2	*Lib. Sc. 42—Public Documents.....	3		
Lib. Sc. 15a—Seminar.....	2	Lib. Sc. 15b—Seminar.....	2		
Lib. Sc. 24a—Selection of Books.....	2	Lib. Sc. 24b—Selection of Books.....	2		
Lib. Sc. 26a—Library Administration.....	3	*Lib. Sc. 29—Advanced Classification.....	2		
*Lib. Sc. 27—Bibliographical Institutions....	1	Lib. Sc. 26b—Library Administration.....	3		
		*Lib. Sc. 28—Practise.....	1 to 4		
Total.....	16	Total.....	19 to 22		

### LIBRARY CLUB

Any member of the Library School faculty or of the staff of the University Library and any student in the Library School may become a member. Six meetings are held each year.

### ALUMNI LOAN FUND

The University of Illinois Library School Association has voted to make all surplus funds in its treasury available for loan to senior library school students. Over \$250 is available for that purpose on the vote of the School faculty.

In addition to the courses of the regular two years curriculum, the School also offers to its students the advantages of hearing lectures by men and women prominent in bibliographical and library fields. From eight to ten such additional lectures on subjects connected with librarianship are given each year. For names of lecturers and subjects of their lectures, see page 98.

<sup>1</sup>Semester hours. For definition, see page 249.

# THE SCHOOL OF MUSIC

For *admission* to the School of Music, see the general statement of entrance requirements of the University, pages 68-75. For *fees*, see page 111. For the *faculty* of the School of Music and description of the *courses* in music, see under "Music" in the "Description of Courses," Part III.

## GENERAL STATEMENT

The School of Music offers regular courses leading to the degree of Bachelor of Music.

Students who are not working for the degree in Music may receive a statement from their instructors on completing not less than one year of college work.

Classes in ear training and sight singing meet twice each week. Music students are required to attend these classes.

Choral or orchestral work is required of all students who are taking courses in piano, voice, violin, organ, or band instruments.

Students of the School of Music are not allowed to appear in public without the consent of the Director of the School of Music.

All students majoring in a practical subject are required to take Music 94 (Recital) in the Junior and Senior years.

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The courses in the history of music and musical theory, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments without fee. Courses in Applied Music may be taken without charge, except for a nominal registration fee.

## REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Music must offer credit for 130 semester hours, including the prescribed subjects named below, together with an acceptable thesis on a topic related to music.

All music students are expected to attend the concerts and recitals which are given under the auspices of the School of Music.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when sufficiently prepared.

## CURRICULUM IN MUSIC

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>		Hours <sup>1</sup>
Foreign language, French, German, or Italian	4	Foreign language, French, German, or Italian	4		
Mus. 3—Harmony.....	2	Mus. 4—Harmony.....	2		
Mus. 21a—Ear Training.....	2	Mus. 21b—Ear Training.....	2		
Mus. 42a, 52a, or 62a—Piano, Voice, or Violin	4	Mus. 42b, 52b, or 62b—Piano, Voice, or Violin	4		
Mus. 46a, 56a, or 66a—Minor subject.....	2	Mus. 46b, 56b, or 66b—Minor subject.....	2		
Rhet. 1 <sup>2</sup> —Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3		
Phys. Ed. 7a—Gymnasium (women).....	1	Phys. Ed. 7b—Gymnasium (women).....	1		
Phys. Ed. 9—Hygiene (women).....	1	Phys. Ed. 2—Gymnasium (men).....	1		
Phys. Ed. 1 and 1a—Gymnasium and Hygiene (men).....	1	Mil. 2a—Military Drill (men).....	1½		
Mil. 1a—Military Drill (men).....	1½	Mil. 2b—Military Theory (men).....	1½		
Mil. 1b—Military Theory.....	1½				
Total, Men.....	17	Total, Men.....	17		
Total, Women.....	17	Total, Women.....	17		

<sup>1</sup>Semester hours. For definition, see page 249.

<sup>2</sup>Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2 may be excused from Rhetoric 1. See page 75.

## SECOND YEAR

Foreign language, French, German, or Italian	4
Mus. 1—History of Music.....	2
Mus. 5—Advanced Harmony.....	3
Mus. 22a—Ear Training.....	1
Mus. 23a—Sight Singing.....	1
Mus. 43a, 53a, 63a, or 84—Piano, Voice, Violin, or Organ (Major Subject).....	4
Mus. 46c, 56c, 66c, or 83c—Minor Subject.....	2
Phys. Ed. 8a (for women).....	1
Mil. 3a—Military Drill (men).....	$\frac{1}{2}$
Mil. 3b—Military Theory.....	$\frac{1}{2}$
Total, Men.....	17
Total, Women.....	17

Foreign language, French, German, or Italian	4
Mus. 2—History of Music.....	2
Mus. 6—Advanced Harmony.....	3
Mus. 22b—Ear Training.....	1
Mus. 23b—Sight Singing.....	1
Mus. 43b, 53b, 63b, or 85—Piano, Voice, Violin, or Organ (Major Subject).....	4
Mus. 46d, 56d, or 66d—Minor Subject.....	2
Phys. Ed. 8b (for women).....	1
Mil. 4a—Military Drill (for men).....	$\frac{1}{2}$
Mil. 4b—Military Theory (for men).....	$\frac{1}{2}$
Total, Men.....	17
Total, Women.....	17

## THIRD YEAR

Educ. 1—Introduction to Education.....	4
Eng. 1—Survey of English Literature.....	4
Mus. 7—Counterpoint, Canon, and Fugue.....	3
Mus. 24a—Sight Singing.....	1
Mus. 44a, 54a, 64a, or 86—Piano, Voice, Violin, or Organ (Major Subject).....	4
Mus. 46c, 56c, or 66c—Minor Subject.....	2
Total.....	18

Eng. 2—Survey of English Literature.....	4
Mus. 8—Counterpoint, Canon, and Fugue.....	3
Mus. 24b—Sight Singing.....	1
Mus. 45b, 55b, or 65b—Piano, Voice, Violin, or Organ.....	4
Mus. 46f, 56f, or 66f—Minor Subject.....	2
Mus. 94a—Recital.....	1
Educ. 10—Technic of Teaching.....	3
Total.....	18

## FOURTH YEAR

Eng. 23—Introduction to Shakespeare.....	3
Mus. 9—General Theory.....	2
Mus. 11—Acoustics.....	1
Mus. 27a—Ensemble.....	1
Mus. 45a, 55a, or 65a—Piano, Voice, Violin, or Organ.....	4
Mus. 46g, 56g, or 66g—Minor Subject.....	2
Total.....	13

Mus. 10—General Theory.....	2
Mus. 12—Acoustics.....	1
Mus. 27b—Ensemble.....	1
Mus. 45b, 55b, or 65b—Piano, Voice, Violin, or Organ.....	4
Mus. 46h, 56h, or 66h—Minor Subject.....	2
Mus. 94b—Recital.....	1
Total.....	11

*In addition, to make up the prescribed total of 130 hours:* Elective, for men, 1 hour; for women, 3 hours. This extra credit may be taken at any time; the election must be approved by the student's adviser.

Practical courses include regular attendance in orchestra and choral society unless a student is excused by the Director of the School of Music.

## MUSICAL ORGANIZATIONS

*The University Choral and Orchestral Society* is conducted by the Director of the School of Music, with the assistance of the instructor of violin, and gives a series of concerts throughout the year. The orchestra meets for two hours' rehearsal once a week; it is open to all students who qualify for membership. The chorus meets once a week for rehearsal of choral work. Singers not connected with the University are admitted by permission of the Director.

*The Military Band* is conducted by the instructor in band instruments. Besides giving several concerts during the year, it furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examinations. A second band is also conducted, in order that all students who play band instruments ordinarily well may have an opportunity to play in a band. Each full term of service in the band counts for one term of the required work in military science. After obtaining credit for four semesters' work those who are continued in the band for not less than one year are paid an amount equal to the incidental fees for the year. There is also a reserve band and trumpet and drum corps.

The University Women's Glee Club is also under the supervision of the School of Music.

# THE COLLEGE OF EDUCATION

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## GENERAL STATEMENT

In June, 1918, the College of Education was organized to supersede the School of Education. It now includes, beside the general education courses leading to the degree of Bachelor of Science (Education), curriculums in Agricultural Education, Athletic Coaching and Physical Education, Home Economics Education, and Industrial Education. It is the aim of the College of Education to prepare its students as completely as possible for positions in the educational profession. It is, therefore, in its general plan and organization considered as one of the professional schools. In the case of Industrial Education, and Athletic Coaching and Physical Education, four-year curriculums are offered.

## REQUIREMENTS FOR ADMISSION

In general, for the year 1919-20, a student must complete two years (60 hours exclusive of military) of a curriculum in the colleges of Agriculture, Commerce and Business Administration, Engineering, or Liberal Arts and Sciences, or the School of Music before being admitted to the College of Education. The exceptions to this are: Athletic coaching and Physical Education, and Industrial Education. To the former, admission is granted upon the fulfillment of admission to the University and the passing of a medical and physical examination; to the latter, admission is granted upon the fulfillment of the requirements of admission to the University.

Juniors entering the College of Education through the College of Liberal Arts and Sciences should have completed the prescribed subjects and the first five group requirements for the degree of Bachelor of Arts.

Juniors entering through the other colleges should select some curriculum in the college chosen, and complete the first two years.

Juniors entering from other institutions must present 60 hours of a curriculum pursued in that institution.

Students who enter with more than 60 hours of credit will be given advanced standing in the College of Education to the amount which the credit is in excess of 65 hours.

## REQUIREMENTS FOR GRADUATION

Students who graduate from the College of Education are awarded the degrees of Bachelor of Science (Education), Bachelor of Science (Agricultural Education), Bachelor of Science (Industrial Education), or Bachelor of Science (Physical Education).

The requirements for graduation are the following:

1. Admission to the College of Education;
2. A curriculum of 70 hours, except in Athletic Coaching and Physical Education, in which 136 hours is required, and in Industrial Education, in which 130 hours is required.
3. A major of 20 hours in education, including the following courses taken after admission to the College of Education: educational psychology, 3 hours; technic of teaching, 3 hours; a teacher's course in the subject of specialization, 3 hours; principles of secondary education, 3 hours; and teaching, 3-5 hours.

The sequence of courses is as follows:

### *Junior Year—*

First Semester: Educational Psychology.

Second Semester: Technic of Teaching.

*Senior Year—*

Either Semester: The Teacher's Course and Teaching in the high school simultaneously.

Principles of secondary education should preferably be taken in the senior year but in no case earlier than the second semester of the junior year.

During the year 1919-20 Education 1 may be taken in place of Educational Psychology; and, for seniors, the teacher's courses offered in the departments of the College of Liberal Arts and Sciences and the School of Music may be substituted for the teacher's courses which will later be given in the College of Education.

4. A subject of specialization, which the student expects to teach, must be selected. Twenty hours of approved courses must be completed, except that in Agricultural Education, 50 hours, Home Economics Education, 36 hours, Athletic Coaching and Physical Education, 47 hours, and Industrial Education, 15 hours must be completed.

In computing the hours in the subject of specialization, courses taken in other colleges prior to admission may be counted.

5. The remainder of the curriculum may be elected from a list of courses approved by the faculty of the College of Education.

**TEACHER'S DIPLOMA**

Graduates of the College of Education who have satisfied the faculty with regard to their qualifications as teachers will be granted a Teacher's Diploma to apply toward the fulfillment of the requirements for certificates issued without examination.

**CURRICULUMS IN EDUCATION**

Because of the variety of curriculums which the student may offer for admission to the College of Education none is presented in any department except agricultural education, home economics education, industrial education, and athletic coaching and physical education. Students preparing to teach other subjects should follow the requirements stated under "Requirements for the Degree."

**Curriculum in Agricultural Education***Meeting the requirements of teacher training under the Smith-Hughes Act***FIRST YEAR**

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Agron. 25—Farm Crops.....	4	Agron. 25—Farm Crops.....	4
Chem. 1—Inorganic Chemistry.....	5	or A. H. 5—Live Stock Judging.....	3
or A. H. 5—Live Stock Judging.....	3	D. H. 3—Elements of Dairy Husbandry.....	1
D. H. 3—Elements of Dairy Husbandry.....	1	and Chem. 2a—Inorganic Chem. and Quali-	
Chem. 1a—Inorganic Chemistry.....	3	tative Analysis.....	5
and Ag. Ext. 4—Elementary Agricultural		Hort. 1b—Elements of Horticulture.....	2
Extension.....	1	Rhet. 2—Rhetoric and Themes.....	3
Hort. 1a—Elements of Horticulture.....	2	Phys. Ed. 2—Gymnasium.....	1
Rhet. 1—Rhetoric and Themes.....	3	Mil. 2a—Military Drill.....	$\frac{1}{2}$
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2b—Military Theory.....	$\frac{1}{2}$
Mil. 1a—Military Drill.....	$\frac{1}{2}$		
Mil. 1b—Military Theory.....	$\frac{1}{2}$		
Total.....	15-17	Total.....	16

<sup>1</sup>Semester hours. For definition, see page 249.

## SECOND YEAR

A. H. 8 and 21—Principles of Breeding and Feeding.....	3
Bot. 1—General Botany.....	5
or Agron. 26—Elementary Farm Mechanics	3
Chem. 13a—Elementary Quantitative Analysis.....	5
Mil. 3a—Military Drill.....	1½
Mil. 3b—Military Theory.....	1½
Total.....	9

*Suggested Electives*

A. H. 1a—Sheep: Breeds and Market Classes	2
A. H. 1b—Sheep: Breeding, Feeding, and Management.....	3
Lib. Sci. 12—Gen. Reference.....	2
Eng. 20—Chief Eng. Writers.....	4
Ag. Ed. 40—Project Methods.....	2-5

A. H. 8 and 21—Principles of Breeding and Feeding.....	3
Bot. 1—General Botany.....	5
or Agron. 26—Elementary Farm Mechanics	3
Chem. 13a—Elementary Quantitative Analysis.....	5
Mil. 4a—Military Drill.....	1½
Mil. 4b—Military Theory.....	1½
Total.....	9

*Suggested Electives*

A. H. 2a—Swine: Breeds and Market Classes	2
A. H. 4a—Horse.....	2
Eng. 20—Chief English Writers.....	4
Econ. 2—Principles.....	3
Ag. Ed. 40—Project Methods.....	2-5

## THIRD YEAR

Educ. 25—Educational Psychology.....	3
Educ. 10—Technic of Teaching.....	3
Total.....	6

*Suggested Electives*

D. H. 2—Dairy Cattle.....	5
Agron. 2—Machinery.....	3
A. H. 11a—Beef Cattle.....	2
Hort. 10a—Rural Improvement.....	2
Ent. 4—Economic Entomology.....	3
Zool. 1—General.....	5
Hist. 3a—U. S. History.....	3
Econ. 15—Rural Credit.....	2
Ag. Educ. 10—Extension Teaching.....	2
Math. 4—Plane Trigonometry.....	2

Educ. 25—Educational Psychology.....	3
Educ. 10—Technic of Teaching.....	3
Total.....	6

*Suggested Electives*

A. H. 30—Genetics.....	5
A. H. 23—Poultry.....	5
Ent. 4—Economic Entomology.....	3
Zool. 1—General.....	5
Hist. 3b—U. S. History.....	3
Soc. 7—Rural Sociology.....	2
Math. 4—Plane Trigonometry.....	2
Ag. Educ. 20—Curriculums.....	2

## FOURTH YEAR

Educ. 50 (Ag.)—Teaching.....	5
Ag. Educ. 51—Principles and methods in secondary-school agriculture.....	3

*Suggested Electives*

Agron. 9—Soil Physics.....	5
A. H. 22—Adv. Stock Judging.....	3
Bact. 1—Elementary Bacteriology.....	3
Phys. 1a—General Physics.....	3
Pub. Sp. 5—Persuasion.....	2
French 1a—Elementary Course.....	4
Ag. Educ. 30—Curriculums.....	3
Ag. Educ. 90—Research problems in methods and materials of Ag. instruction.....	2
Ag. Educ. 91—Administration and supervision.....	2

Educ. 50 (Ag.)—Teaching.....	5
Ag. Educ. 51—Principles and methods in secondary-school agriculture.....	3

*Suggested Electives*

Agron. 12—Soil Fertility.....	5
Farm Management 1—Elementary.....	3
A. H. 35—Disease of Farm Animals.....	2
Phys. 1b—General Physics.....	2
Engl. 8—Agr. News Writing.....	3
Pub. Sp. 6—Forms of Public Address.....	2
French 1b—Elementary Course.....	4
Ag. Educ. 30—Curriculums.....	3
Ag. Educ. 90—Methods and materials of Ag. instruction.....	2
Ag. Educ. 91—Administration and Supervision	2

Agriculture prescribed—first two years..... 19 hours

Agriculture prescribed—as electives..... 33 hours

52 hours

Non-agriculture prescribed (including 20 hrs. education) ..... 58 hours

Open electives..... 20 hours

Total..... 130 hours

## AGRICULTURAL AND HOME ECONOMICS EDUCATION

The College of Education offers courses for the preparation of teachers, supervisors, and administrators of Vocational Agriculture, and of Home Economics designed to meet the requirements of the section of the Smith-Hughes Act relating to teacher-training institutions.

Courses in teaching include practise in the departments of Vocational Agriculture and Home Economics in the high schools near the University. Opportunity is offered to graduate students to carry on investigations in the field of Agricultural Education.

## Curriculum in Home Economics (Smith-Hughes)

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
A. & D. 1—Freehand Drawing.....	3	A. & D. 11—Applied Design.....	2
Chem. 1 or 1a—Intro. Chem.....	5 or 3	Chem. 2a—Inorganic Chemistry and Qualitative Analysis.....	5
Home Econ. 3—Art and Sanitation in Daily Life.....	2	Home Econ. 11—Selection and Preparation of Food.....	3
Lib. Sci. 10—Gen. Reference.....	2	Home Econ. 12—Textiles.....	2
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Phys. Ed. 7—Phys. Training.....	1	Phys. Ed. 7—Phys. Training.....	1
Phys. Ed. 9—Hygiene.....	1		
Total.....	17 or 15	Total.....	16

## SECOND YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Biol. 1 or Biol. 1a—Gen. Biol. or Zoology.....	3	Chem. 9 and 9a—Elementary Organic Chemistry.....	5
Eng. 1—Survey of Eng. 1a.....	4	Home Econ. 13—Prin. of Economics.....	3
Home Econ. 4—Economic Uses of Food.....	4	Home Econ. 14—Survey of Textile Lit.....	4
Home Econ. 5—Elementary Making.....	3	Home Econ. 15—Designing and Making of Typical Garments.....	3
Phys. Ed. 8—Phys. Training.....	1	Phys. Ed. 8—Phys. Training.....	1
Total.....	17	Total.....	16

## THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Home Econ. 16—Economic Resources.....	3	Home Econ. 16—Weaving.....	1
Home Econ. 17—Gen. Biogenesis Home or High School.....	4 or 3		
Home Econ. 18—Home Architecture.....	3		
Home Econ. 19—Household Organization and Management.....	3		
Phys. Ed. 10—Gen. Physiology.....	3		
Total.....	13	Total.....	16

## FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Bach. 5—Elementary Bach. or Bach. 10—Practice Teaching and Home Econ. 14—Practice House.....	5 or 3	Bach. 10—Practice House or Bach. 5—Elementary Bach.....	8 or 5
Bach. 6—Principles of High School Education.....	3	Home Econ. 11—Teachers' Course.....	3
Bach. 10—Practice of Teaching.....	3		
Home Econ. 11—Teachers' Course.....	3		
Total.....	14 or 17	Total.....	11 or 8

## ATHLETIC COACHING COURSE

The purpose of the course in athletic coaching is primarily to train men to instruct in the various physical activities, such as football, basketball, baseball, track and field, swimming, calisthenics, gymnastics, boxing, wrestling, group games, Jiu Jitsu, tumbling, and fencing. In addition, opportunity is given to study systems of administration, organization, training, and the theory of physical education.

## Curriculum in Athletic Coaching

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
A. G. 30—Football 3 hrs. pract. 1 hr. theory, 1st half sem.....	3	A. G. 40—Swimming 6 hrs. pract.....	3
A. G. 40—Basketball 3 hrs. pract. 1 hr. theory, 2nd half sem.....	3	A. G. 14—Hygiene.....	5
A. G. 50—Field and Track 3 hrs. pract. 1 hr. theory.....	3	A. G. 15—Field and Track 3 hrs. pract. 1 hr. theory.....	3
A. G. 5—Pace Exercise 6 hrs. pract. 2 hrs. theory.....	4	Rhetoric 1—Rhetoric and Themes.....	2
Rhetoric 1—Rhetoric and Themes.....	3	Military 1a—Military Drill.....	1/2
Military 1a—Military Drill.....	1/2	Military 1b—Military Theory.....	1/2
Military 1b—Military Theory.....	1/2	Electives.....	2-5
Electives.....	1-4		
Total.....	15-18	Total.....	15-18

<sup>1</sup> Semester hours. For definition, see page 146.

<sup>2</sup> Chemistry 1a is taken, a 1-hour elective must be added, with the approval of the adviser.

<sup>3</sup> Attention is called to the fact that high-school physics is a prerequisite for Home Economics 1.



## SECOND YEAR

A. C. 31—Football (9 hrs. prac. 1 hr. theory, 1st half sem.).....	2	A. C. 4—Apparatus, elementary, (3 hrs. prac. 1 hr. theory).....	3
A. C. 7—Boxing (4½ hrs. prac. 2nd half sem.).....	1	A. C. 13—Anatomy.....	3
A. C. 8—Wrestling (4½ hrs. prac. 2nd half sem.).....	1	A. C. 50—Baseball (9 hrs. prac. 1 hr. theory).....	4
A. C. 12—Pharmacology.....	4	Military 4a—Military Drill.....	1½
Military 3a—Military Drill.....	1½	Military 4b—Military Theory.....	1½
Military 3b—Military Theory.....	1½	Electives.....	5-8
Electives.....	6-9		
	15-18		15-18

## THIRD YEAR

A. C. 6—Group Games and Mass Ath. (3 hrs. prac. 1 hr. theory).....	3	A. C. 16—Training and First Aid (3 hr. prac. 1 hr. theory).....	2
A. C. 9—Orthopedics.....	3	A. C. 32—Football (theory 4 hrs. 1st half semester).....	2
Education 25—Educational psycho.....	3	A. C. 41—Basketball (9 hrs. prac. 1 hr. theory, 2nd half sem.).....	2
Public Speaking 1.....	3	Education 50—(Baseball), Baseball Coaching 6 hrs.....	3
Electives.....	6-9	Psychology 1.....	3
		Public Speaking 2.....	3
		Electives.....	2-5
	15-18		15-18

## FOURTH YEAR

Education 6—Prin. of Secondary Education.....	5	A. C. 15—Playground (2 hrs. theory, 3 hrs. prac.).....	5
A. C. 17—Organization and Administration of Phys. Ed.....	5	Education 50—(Track) Coaching 6 hrs. prac.....	5
Education 50—(Football) Coaching, 12 hrs. 1st half sem.....	2	Education 10—Technic of Teaching.....	5
Education 50—(Basketball) Coaching 12 hrs. 2nd half sem.....	1	A. C. 5—Physical Diagnosis.....	5
Psychology 9.....	3	Electives.....	5-8
Electives.....	3-6		
	15-18		15-18

## INDUSTRIAL EDUCATION

The Department of Industrial Education of the University of Illinois has been established as an aid in the promotion of the welfare of industry. This it aims to do largely through the better training of teachers. The department is also concerned with the training of manual training teachers of shop work and drafting in the field of general education, and with the training of administrators for both industrial and manual arts.

While the department is organized as a part of the College of Education, like all other departments of the University, it makes use of such courses in other colleges and departments as serve its purposes. This makes possible a wealth of material for use of students specializing in Industrial Education.

## Curriculum in Industrial Education

## Curriculum for Teachers of Related Subjects (Smith-Hughes Courses)

*Prerequisite for entrance:* Graduation from an accredited high-school.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Art and Design 1—Freehand Drawing.....	5	Art and Design 12—Design.....	5
C. E. D. 1—Elements of Drafting.....	4	C. E. D. 2—Descriptive Geometry.....	5
Math. 2 or 3—Algebra.....	5 or 5	Math. 6—Analytic Geometry.....	5
Math. 4—Trigonometry.....	5	Rhet. 2—Rhetoric and Themes.....	5
Rhet. 1—Rhetoric and Themes.....	5	Phys. Tr. 2—Gymnasium men.....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men).....	1	Phys. Tr. 1b—Practice women.....	1
Phys. Tr. 7a—Practice women.....	1	Mil. 2a—Military Drill men.....	1½
Phys. Tr. 8—Hygiene women.....	1	Mil. 2b—Military Theory (men).....	1½
Mil. 1a—Military Drill (men).....	1½		
Mil. 1b—Military Theory (men).....	1½		
Total.....	17	Total.....	15 and 16
Summer work in trade or industry.			

<sup>1</sup> Semester hours. For definition, see page 249.

## SECOND YEAR

Chem. 1 or 1a or 1b—Inorganic Chem.	5 or 3 or 4	Chem. 4—Qualitative Analysis	4
Phys. 7a—Physics Lectures	2½	Phys. 7b—Physics Lectures	2½
Phys. 8a—Physics Laboratory	½	Phys. 8b—Physics Laboratory	½
Indus. Educ. 1—Craft Production	4	T. and A. M. 20—Analytical Mechanics	3
Mil. 3a—Military Drill (men)	½	Indus. Educ. 2—Quantity Production	4
Mil. 3b—Military Theory (men)	½	Mil. 4a—Military Drill (men)	½
Phys. Tr. 8a—Practise (women)	1	Mil. 4b—Military Theory (men)	½
		Phys. Tr. 8b—Practise (women)	1
Total	16 or 17 or 18	Total	18
		Summer work in trade and industry	

## THIRD YEAR

Educ. 25—Educational Psychology	3	Educ. 10—Technic of Teaching	3
Indus. Educ. 50—Survey of Indus. Educ.	3	Indus. Educ. 52—Teaching of Related Subjects	3
Econ. 2—Principles of Economics	3	Sociol. 1—Principles of Sociology	3
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
M. E. 75 and 77—Forge and Foundry (men)	3	M. E. 79—Pattern Work (men)	3
H. Ec. 7—Textiles (women)	2	H. Ec. 1—Selection and Preparation of Food (women)	3
Public Speaking 1—Oral Expression	2	Public Speaking 2—Extemporaneous Speaking	2
Total	16 and 17	Total	17
		Summer work in trade or industry	

## FOURTH YEAR

Indus. Educ. 58—Organization of Industrial Education	3	Indus. Educ. 53b—Supervised Teaching of Related Subjects	2
Educ. 41—Vocational Education	3	Acc'y 10—Shop Management and Shop Records	2
Indus. Educ. 53a—Supervised Teaching of Related Subjects	2	M. E. 82—Machine Work (men)	2
M. E. 81—Machine Work (men)	3	H. Ec. 12—Clothing (women)	3
H. Ec. 19—Dress Design (women)	3	Electives	10 or 11
Electives	6		
Total	17	Total	17

Suggested two year curriculum for Teachers of Related Subjects. To be taken only by students over twenty-one years of age, graduates of an accredited high-school. Students over 25 are not required to take physical training or military.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Indus. Educ. 1—Craft Production	4	Math. 4—Trigonometry	2
Rhet. 1—Rhetoric and Themes	3	G. E. D. 1—Elements of Drafting	4
Art and Design 1—Freehand Drawing	3	Chem. 1 or 1a or 1b—Inorganic Chem.	5 or 3 or 4
Math. 2 or 3—Algebra	3 or 5	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men)	1	Phys. Tr. 2—Gymnasium (men)	1
Phys. Tr. 7a—Practise (women)	1	Phys. Tr. 11—Practise (women)	1
Phys. Trs. 9—Hygiene (women)	1	Mil. 2a—Military Drill (men)	½
Mil. 1a—Military Drill (men)	½	Mil. 2b—Military Theory (men)	½
Mil. 1b—Military Theory (men)	½	Electives	2
Total	15 or 17	Total	16 or 18
Summer work in trade and industry			

## SECOND YEAR

Phys. 7a—Physics Lectures	2½	Phys. 7b—Physics Lectures	2½
Phys. 8a—Physics Laboratory	½	Phys. 8b—Physics Laboratory	½
Art and Design 12—Design	2	Indus. Educ. 52—Teaching Related Subjects	3
Indus. Educ. 50—Survey of Indus. Educ.	3	Indus. Educ. 2—Quantity Production	4
Educ. 25—Educational Psychology	3	Indus. Educ. 53b—Supervised Teaching	2
Educ. 41—Vocational Education	3	Educ. 10—The Technic of Teaching	3
Indus. Educ. 53a—Supervised Teaching	2	Mil. 4a—Military Drill (men)	½
Mil. 3a—Military Drill (men)	½	Mil. 4b—Military Theory (men)	½
Mil. 3b—Military Theory (men)	½	Phys. Tr. 8b—Practise (women)	1
Phys. Tr. 8a—Practise (women)	1	Electives	2
Total	17	Total	18
		Summer work in trade or industry	

<sup>1</sup>Semester hours. For definition, see page 249.

# Four Year Curriculum for Teachers of General Continuation Subjects (Smith-Hughes Courses)

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Econ. 7—English Economic History.....	3	Econ. 22—The Economic History of the United States.....	3
Acc'y 1a—Principles of Accounting.....	3	G. E. D. 1—Elements of Drafting.....	4
Art and Design 1—Freehand Drawing.....	3	Acc'y 1b—Principles of Accounting.....	3
Math. 4—Trigonometry.....	2	Art and Design 12—Design.....	2
H. Ec. 2—Home Architecture and Sanitation	2	Phys. Tr. 2—Gymnasium (men).....	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men).....	1	Phys. Tr. 7b—Practise (women).....	1
Phys. Tr. 7a—Practise (women).....	1	Mil. 2a—Military Drill (men).....	1½
Phys. Tr. 9—Hygiene (women).....	1	Mil. 2b—Military Theory (men).....	1½
Mil. 1a—Military Drill (men).....	1½		
Mil. 1b—Military Theory (men).....	1½		
Total.....	18	Total.....	16 and 17
		Summer work in trade or industry.	

## SECOND YEAR

Public Speaking 1—Oral Expression.....	2	Public Speaking 2—Extemporaneous Speaking	2
Econ. 26—Economic Resources.....	3	Econ. 27—Modern Industries.....	3
Econ. 1—Principles of Economics.....	5	Pol. Sci. 1—State and Local Government...	3
History 3a—History of the United States...	3	Rhet. 10—Business Writing.....	2
Indus. Educ. 1—Craft Production.....	4	Hist. 3b—History of the United States...	3
Mil. 3a—Military Drill (men).....	1½	Indus. Educ. 2—Quantity Production.....	4
Mil. 3b—Military Theory (men).....	1½	Mil. 4a—Military Drill.....	1½
Phys. Tr. 8a—Practise (women).....	1	Mil. 4b—Military Theory.....	1½
		Phys. Tr. 8b—Practise (women).....	1
Total.....	18	Total.....	18
Summer work in trade or industry.			

## THIRD YEAR

Indus. Educ. 50—Survey of Indus. Educ.....	3	Geol. 37—Human Geography.....	5
Educ. 25—Educational Psychology.....	3	Educ. 10—The Technic of Teaching.....	3
Pol. Sci. 1a—American National Government	3	Sociol. 1—The Principles of Sociology.....	3
Rhet. 3c—Argument.....	3	Indus. Educ. 54—Teaching General Continuation Subjects.....	3
Electives.....	4	Electives.....	3
Total.....	17	Total.....	17
Summer work in trade or industry.			

## FOURTH YEAR

Indus. Educ. 58—Organization of Indus. Educ.	3	Indus. Educ. 55b—Supervised Teaching of General Continuation Subjects.....	2
Educ. 41—Vocational Education.....	3	Electives.....	15
Indus. Educ. 55a—Supervised Teaching of General Continuation Subjects.....	2		
Electives.....	9		
Total.....	17	Total.....	17

## Suggested Two Year Curriculum for Teachers of General Continuation Subjects

To be taken only by students over twenty-one years of age, graduates of an accredited high school. Students over 25 are not required to take physical training or military.

## FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3
Indus. Educ. 1—Craft Production.....	4	Pol. Sci. 1b—State and Local Government...	3
Pol. Sci. 1b—American National Government	3	Econ. 22—The Economic History of the United States.....	3
Econ. 7—English Economic History.....	3	Hist. 3b—History of the United States...	3
Hist. 3a—History of the United States.....	3	Geol. 37—Human Geography.....	5
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men).....	1	Phys. Tr. 2—Gymnasium (men).....	1
Phys. Tr. 9—Hygiene (women).....	1	Phys. Tr. 7b—Practise (women).....	1
Phys. Tr. 7a—Practise (women).....	1	Mil. 2a—Military Drill (men).....	1½
Mil. 1a—Military Drill (men).....	1½	Mil. 2b—Military Theory (men).....	1½
Mil. 1b—Military Theory (men).....	1½		
Total.....	18	Total.....	18 and 19
		Summer work in trade or industry.	

<sup>1</sup>Semester hours. For definition, see page 249.

## SECOND YEAR

Indus. Educ. 50—Survey of Indus. Educ. ....	3	Indus. Educ. 54—Teaching General Contin-	
Econ. 26—Economic Resources .....	3	uation Subjects .....	3
Educ. 25—Educational Psychology .....	3	Indus. Educ. 2—Quantity Production .....	4
Educ. 41—Vocational Education .....	3	Econ. 27—Modern Industries .....	3
Indus. Educ. 55a—Supervised Teaching of		Educ. 10—The Technic of Teaching .....	3
General Continuation Subjects .....	2	Indus. Educ. 55b—Supervised Teaching of	
Rhet. 10—Business Writing .....	2	General Continuation Subjects .....	2
Mil. 3a—Military Drill (men) .....	1½	Mil. 4a—Military Drill (men) .....	1½
Mil. 3b—Military Theory (men) .....	1½	Mil. 4b—Military Theory (men) .....	1½
Phys. Tr. 8a—Practise (women) .....	1	Phys. Tr. 8b—Practise (women) .....	1
		Electives .....	2
Total .....	17	Total .....	18
Summer work in trade or industry.			

## GRADUATE WORK IN EDUCATION

Graduate work in education is offered to qualified students in the following fields: educational administration; history of American education; educational psychology, including mental tests and clinical psychology; educational statistics; educational measurements; educational theory. The facilities of the University, including the library, laboratories, and the Bureau of Educational Research, are such as to make possible the investigation of all kinds of problems connected with the development of educational practise, theory and administration. The major purpose of graduate work in education is to train students for administrative positions or for work as educational specialists in connection with city and normal schools, colleges, and universities.

## BUREAU OF EDUCATIONAL RESEARCH

The Bureau of Educational Research is equipped for the following purposes: (a) the investigation of educational problems; (b) state service through the assimilation of information by correspondence with those making inquiry concerning the problems of education; (c) periodical publications; (d) the distribution of all standard educational scales and tests. Its personnel consists at the present of a director, an assistant director, two research assistants, and a clerical force of seven persons, including two library assistants for the classification of educational literature.

The Bureau also offers a curriculum designed to prepare students for directing educational research in public schools. This curriculum is planned for three classes of students: (1) superintendents and other supervisors who are directing educational research, (2) supervisors and teachers who desire to advance professionally by preparing themselves to direct educational research, and (3) graduate students in education.

## PUBLICATIONS OF THE COLLEGE OF EDUCATION

The College of Education publishes a series of bulletins comprising (a) reports of the annual High School Conference, the Conferences on Teachers' Institutes, and other meetings and conferences regarding public education held at the University, (b) reports of investigation and studies by members of the instructional staff and students in the department, and (c) publications of the Bureau of Educational Research.

*The Journal of Educational Research* is published for the Bureau of Educational Research by the Public School Publishing Company, Bloomington, Illinois. It is edited by the Director of the Bureau of Educational Research with the assistance of a board of associate editors.

## COMMITTEE ON APPOINTMENT OF TEACHERS

The Committee on Appointment of Teachers recommends qualified graduates of the University for positions as teachers or supervisors in public schools, colleges, and technical schools in response to requests from the school authorities. The Director of the School

of Education is chairman of the Committee, and the Secretary of the School is its chief executive officer.

The recommendations of the Committee are made under the following regulations of the University Senate:

1. The University Committee on Appointments is authorized to issue its recommendation, signed by the Committee as the agent of the University, in all cases in which it is satisfied with the student's scholarship and ability to teach. The Committee shall regard the scholarship requirements as met if, in addition to carrying the professional courses mentioned in the next paragraph, the student has passed with an average grade of B in the courses necessary to constitute a major in the principal subject which he wishes to teach, and in courses aggregating a minimum varying from six to twelve semester hours (according to subject, and at the discretion of the Committee) in each of the other subjects for which he wishes to be recommended. The committee shall, however, in each case secure the written opinion of the departments concerned in regard to the scholarship of the applicant, and shall view the evidence of scholarship as shown by the records in the light of this opinion; and if there appear to the Committee to be reasons which from their nature cannot be shown by mere records for questioning the scholastic ability of the student, the Committee may in its discretion withhold the recommendation.

2. A candidate must have successfully completed the following courses in the department of education:

a. An introductory course which shall aim (1) to acquaint the prospective teacher with the public school system as it exists today in the United States, and (2) to present a brief outline of the principles of education. (A four-hour course.)

b. A course in the technics of teaching, accompanied by observation of class-room work in secondary schools, and including a discussion of class management (routine and discipline), the elements of school hygiene, and the types of school exercises. (A three-hour course.)

3. The Director of the School of Education may, in his discretion, excuse a candidate from the professional courses outlined above, (1) if the candidate is a normal-school graduate or has taken equivalent courses in a normal school or in another college or university; or (2) if the candidate has had at least one year of successful teaching experience. If, at the time of registration with the Committee on Appointments, the candidate has not completed one of the required courses, but is enrolled at that time in the course, a Committee recommendation may be given with the approval of the instructor in charge of the course.

The courses mentioned in Section 2 are (a) Education 1, Introduction to Education (4 hours), and (b) Education 10, Observation and Technics of Teaching (3 hours). Either course may be taken in either semester.

## CERTIFICATION OF HIGH-SCHOOL TEACHERS IN ILLINOIS

A student who expects to teach in the Illinois high schools should bear in mind that all teachers must be duly certificated. County high-school certificates are granted upon examination by county superintendents, and State high-school certificates upon examination by the State Superintendent. For county high-school certificates issued without an examination the new certificating law makes the following provision:

"At the option of the county superintendent, a high school certificate may be issued without examination to graduates of a recognized normal school, college, or university, who present within three years after graduation, certified credits in English, pedagogy and six high school subjects (chosen from a list published by the Examining Board) and accompanied by faculty recommendations of ability to teach in the high school." (Section 6.)

The educational courses required for the official recommendation of the University, Education 1 and 10, are commonly accepted as meeting the requirement in pedagogy.

State high-school certificates are granted under the following conditions:

"A four-year high school certificate valid in any high school in the State, for which the requirements shall be: (1) Graduation from a recognized college or university, or the completion of an equivalent preparation; (2) three years' successful teaching, two of which shall have been in the State on a first grade, a high school, or a supervisory county certificate; (3) a successful examination in English, educational psychology, and the principles and methods of teaching, and (4) the preparation of a thesis on one or more secondary school problems, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[NOTE—Candidates who have had three years of successful experience in teaching, two of which were in Illinois under a first grade certificate and have exchanged the same for a county high school certificate under the new law, meet the requirements of No. 2.]" (Circular 72, State Department of Public Instruction.)

Education 1, 10, and 25 embody the materials usually covered by the State examinations in educational psychology and in methods of teaching.

## CERTIFICATION OF SUPERINTENDENTS AND PRINCIPALS

The following are the requirements for certification in supervisory work:

"A four-year supervisory certificate valid for supervisory work and for teaching in any district in the State. The requirements for this certificate shall be: (1) Graduation from a recognized high school and from a recognized normal school, or an equivalent preparation; (2) three years' successful supervision, two of which shall have been in this State on a county supervisory certificate; (3) a successful examination in English, educational psychology, sociology, the history of education, and school organization, administra-

tion, and supervision, and (4) the preparation of a thesis on one or more problems of school administration, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[NOTE—Candidates who have had three years of successful experience in teaching, two of which were in Illinois, under a first grade certificate, and have exchanged the same for a county supervisory certificate under the new law, meet the requirements of No. 2.]"

#### LIFE CERTIFICATES

"At the time of its expiration, upon evidence of successful teaching or supervision satisfactory to the Superintendent of Public Instruction, any four-year State certificate enumerated in this Act shall become valid and be endorsed for life. The Validity of State certificates now in force and those issued in accordance with this Act, shall be conditioned upon the good behavior of the holder." (Circular 72, State Department of Public Instruction.)

Education 1, 2, 4, 16, 20, and 25 embody the material usually covered by the examination (except in English) for the State supervisory certificate.

### REQUIREMENTS OF THE NORTH CENTRAL ASSOCIATION

Students who anticipate teaching in high schools accredited to the North Central Association of Colleges and Secondary Schools should complete courses in education aggregating at least *eleven* semester hours. This requirement of the Association is effective for new teachers after 1915, but is not retroactive. Certain work offered outside the department of education, especially "teachers' courses," may be counted as part of the eleven-hour minimum.

### THE CHICAGO TEACHER-TRAINING CENTER

In 1918 the State Board for Vocational Education designated the University of Illinois as an institution for the training of teachers for the trades and industries under the terms of the Smith-Hughes Act. In connection with this enterprise the College of Education was authorized by the Board of Trustees to establish a center in Chicago in which skilled mechanics possessing an interest in teaching might be trained. The Board of Education of the city of Chicago provides class-rooms and equipment for instruction. The instruction is carried on in night classes by members of the faculty of the University resident in Chicago and is under the administrative charge of the Director of the Chicago Center for the Training of Teachers of the Trades and Industries.

# THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

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## GENERAL STATEMENT

The School of Railway Engineering and Administration<sup>1</sup> has been established to prepare men for the technical and administrative departments of railroads. The work offered is arranged in five different curriculums, any one of which is designed to occupy four years' time. The curriculums are:

- Railway Civil Engineering
- Railway Electrical Engineering
- Railway Mechanical Engineering
- Railway Administration
- Railway Transportation

The first three of these curriculums are administered by the College of Engineering, and a description of them appears with that of other curriculums offered by this College. Students are admitted to them under the same conditions as to other curriculums of the College of Engineering, and they have available for their use all of the library, drafting-room, and laboratory facilities which constitute the equipment of this College. The last two curriculums are administered by the College of Commerce and Business Administration; they are described in detail in connection with the other curriculums of this College. Students are admitted to them under the same conditions as to other curriculums of the College of Commerce and Business Administration.

It is the purpose of each of these curriculums to add to a foundation of general discipline and training specialized training for those who look forward to careers in railway service.

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<sup>1</sup>Owing to drafts on the staff of this school for war service the organization has been temporarily suspended.

# MILITARY SCIENCE

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Under the Morrill Land Grant of 1862 (see page 46) military training is required and under the Act of Congress of June 3, 1916, there are at the University of Illinois five units of the Reserve Officers' Training Corps.

All male students who are citizens of the United States and physically fit, except (1) students of the College of Law, (2) students over twenty-five years of age when entering the University, (3) students entering the University with junior standing, and (4) students who have had two years of military work at other institutions having a United States Army Officer on duty as professor of military science and tactics and who present the proper certificates, signed by the professor, of completion of the basic course are enrolled during their freshman and sophomore years in the Reserve Officers' Training Corps, and are required during these two years to devote three periods a week of not less than one hour each to military science and training. Two of the three periods are devoted to drill practise, and one period to theoretical training. Students who wish may attend a summer camp of six weeks.

At the end of the sophomore year a student who so elects and who is selected by the President of the University and the Professor of Military Science and Tactics, and who signs a form of written agreement prescribed by the Secretary of War, may be enrolled for two more years of service in the Reserve Officers' Training Corps. Such students are required to devote five hours a week to an advanced course in military science and training throughout their junior and senior years, and the completion of this work becomes for them a prerequisite for graduation. They are required also to attend one summer camp of six weeks duration. From the beginning of the junior year until the end of the senior year, except the time at camp, they receive commutation of rations at the rate of fifty-five cents a day; at camp the ration itself is furnished.

One hour of credit toward graduation is given for each semester of work in military science, making four credits for the required work of the freshman and sophomore years, and eight credits in all for students who elect the advanced course of the junior and senior years.

A student who completes the elective advanced course is eligible for appointment by the President of the United States as a reserve officer of the United States Army for a period of ten years; and is eligible, also, for appointment as a temporary second lieutenant of the Regular Army, in time of peace, for purposes of instruction, with the allowances provided by law for that grade and pay at the rate of \$100 a month for six months; on the expiration of this period of service with the Regular Army, he reverts to the status of a reserve officer.

The military instruction is under direction of officers of the United States Army. The course has special reference to the duties of officers. The equipment for military instruction is furnished by the War Department and includes: for Infantry, United States magazine rifles, automatic pistols, revolvers, machine guns, trench mortar, and 37 millimeter gun; for Artillery, four American three-inch guns and complete equipment for a battery and battalion headquarters, also one each of the following: 155mm. Howitzer (Schneider), 155mm. gun (Filloux), 4.7-inch American gun, 75 mm. French gun, 75 mm. British gun, 75 mm. American gun, engineer and signal equipment, tractors, reconnaissance car and trucks; ninety-four horses: for Cavalry; forty horses, saddles, bridles, complete accouterments; for Engineers, engineer instruments used for military sketching, maps, and field fortifications; for Signal Corps, radio telephone and telegraph instruments, field telephones, telegraph instruments, heliographs, flags, wire carts, storage batteries, etc. Ammunition and supplies for demonstration and practise are furnished. Students in each arm of the service are given instruction in the functions and equipment of the other arms.



For each year's service in the Reserve Officers' Training Corps a regulation uniform is issued to each student; this includes: one coat, olive drab, wool; one pair breeches, olive drab, wool; one pair leggins; one pair shoes, russet; one shirt, olive drab, wool; one hat, service; one hat cord, R. O. T. C.; four collar ornaments; one belt; chevrons. In addition there is issued those who attend summer camps: two pairs breeches, cotton, olive drab; one pair shoes, marching; one shirt, wool, olive drab; one pair leggins; one hat, service; one hat cord.

The money value of a four-years scholarship in the Reserve Officers' Training Corps is as follows:

Four uniforms, Government value of each, \$18.42.....	\$ 73.68
Two uniforms, summer camp, value of each \$14.67.....	29.34
Commutation of rations, 600 days at 55 cents a day.....	330.00
Rations furnished at summer camps which the student may attend two summers, 90 days at 55 cents a day, value of the rations furnished.....	49.50
Transportation average 500 miles per summer, 1,000 miles for two summers at 4 cents a mile.....	40.00
<b>Total.....</b>	<b>\$522.52</b>
The average for each of the four years is.....	130.63
The average for each of the last two years is.....	213.13

Besides items mentioned above, each student is issued equipment valued from fifty dollars upward.

The Cadet Brigade consists of two regiments of infantry, one regiment of field artillery, a squadron of cavalry, a company of engineers, and a signal company. The training of each of these organizations is directed by an army officer of the appropriate arm of the service. The first year in the brigade is devoted to training in infantry and the duties common to all branches of the service; after the first year the student is free to choose any branch for which his aptitude and course of studies fit him.

A special military scholarship, good for one year, is open to each student who attains the grade of commissioned officer; its value is paid to the holder at the close of the year. Appointments in the brigade are made on the nomination of the commandant of cadets confirmed by the Council of Administration. There shall be as many instructors in military science as are deemed necessary, to be selected from the field officers and captains of the brigade, upon the recommendation of the Professor of Military Science and Tactics, and approved by the proper authority. They shall receive, in addition to the money value of their military scholarship, one hundred dollars a year, payable at the rate of ten dollars per month from September 1.

A committee appointed by the President of the University examines candidates for nomination to the Governor of the State for commissions as brevet captains in the State militia. Candidates must be members of the senior class in full standing; must have completed the course of military studies; must have served two semesters as commissioned officers; and must be approved by the Council of Administration as having good reputations as scholars, officers, and gentlemen.

The University military band is composed of students, and every full term of service therein is counted as one term of drill. Those who play in the band after having earned their four military credits necessary for graduation have their incidental fees remitted at the end of each year. Besides giving several concerts during the year, the band furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examination.

# PHYSICAL EDUCATION

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## FOR MEN

The purpose of the work in the Department of Physical Education is to place the emphasis on the educative values of the various physical activities in developing function, perfecting nervous control, and on mental and moral improvement. The courses are so administered that the following benefits are likewise attained:

Hygienic—Development of organic vigor, improvement of health, and the creation of good physical habits.

Corrective—Correction of posture and carriage and the correction of undeveloped or deformed parts.

Recreative—Giving an opportunity and incentive for physical recreation.

Physical Education is compulsory for all freshmen. Regular classes are formed in boxing, wrestling, fencing, swimming, and for class and individual proficiency on the various gymnasium appliances. Lectures are given on personal hygiene.

All competitive athletic games are under the direct supervision of the Director of Physical Education, and an examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory is allowed to play on a University team.

For a description of the Men's Gymnasium, see page 57.

## FOR WOMEN

The object of the work of this department is to preserve and improve the health, carriage, and coordination of the young women of the University. Each student, when she enters the University, is examined by the medical adviser for women, and further medical examinations are given when deemed necessary.

The class work embraces corrective, hygienic, and recreative exercise, including free and light gymnastics, apparatus, marching, simple steps, games, and participation in the "Maypole." Tennis, hockey, basketball, volleyball, baseball, and archery are played in season.

The gymnasium is open at certain hours and under suitable restrictions to all women of the University. The uniform consists of *black* serge bloomers, white middie blouse, black tie, and gymnasium shoes.

The swimming pool is open daily, except Saturday, from 10 to 12 a. m., and from 2 to 5:30 p. m. The regulation swimming suit of one piece must be made of cotton jersey or other cotton material.

For a description of the Woman's Gymnasium, see under Woman's Building, page 57.

# THE SUMMER SESSION

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EDMUND JAMES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY<sup>1</sup>

DAVID KINLEY, Ph.D., LL.D., ACTING PRESIDENT OF THE UNIVERSITY

CHARLES ERNEST CHADSEY, Ph.D., Litt.D., *Dean of the College of Education, and Director of the Summer Session*

## GENERAL STATEMENT

The Summer Session of the University of Illinois for 1919 opened June 24, and closed August 16, making a term of eight weeks, or one-half a semester, for all students except graduate students who are candidates for a master's degree, for whom the prescribed term is nine weeks, and except students taking only courses in library science, physical education for men, or athletic coaching, for whom the term was six weeks from June 24. The Summer Session of 1920 will open on June 21 and close on August 13.

All of the courses, except those in library science and physical education for men, will extend through the eight weeks. Students who wish to remain for only six weeks, however, may obtain from the Director of the Summer Session a certificate for such attendance, but university credit will not be given for six-weeks' courses, except for those in physical education for men and in athletic coaching.

Students may register for courses aggregating eight hours or less.

## PURPOSE

The Summer Session is an organized integral part of the University year. Though its organization is not subdivided into colleges, numerous courses are offered by departments in the Colleges of Liberal Arts and Sciences, Commerce, Agriculture, Engineering, Education, and in the School of Music and the Library School. All courses may be counted toward an A.B. or B.S. degree, or toward a master's degree, unless otherwise specified. By two Summer Sessions a regular student may reduce the eight semesters to seven, thus securing his degree a half year earlier than he would otherwise have done.

Students who have just graduated from an accredited high school may matriculate in the Summer Session and obtain credit for a half-semester. Pre-medical students are strongly urged to do this and to register for chemistry or zoology, mathematics, rhetoric, or other prescribed pre-medical subjects.

One of the primary purposes of the Summer Session is to meet the needs of the teachers in the public schools who wish to spend a part of the summer vacation in serious study or investigation. Numerous courses are designed particularly for high school teachers, supervising officers, teachers of special subjects (agriculture, art, household science, manual training, music, industrial education, etc.), and coaches of athletic teams; graduate courses are offered for college instructors, school supervisors, and principals who are working for advanced degrees.

## ADMISSION

Admission in regular status to courses in the Summer Session for which university credit is granted is limited to students who could be regularly admitted into the colleges of the University (Liberal Arts and Sciences, or Commerce, or Engineering, or Agriculture) in which they would be registered in the winter session.

In order to meet in full the entrance requirements for any one of these colleges, a student must be a graduate of an accredited high school (or in lieu of such graduation, must pass

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<sup>1</sup>On leave of absence.

entrance examinations in five units, including English composition, 1; algebra, 1; and three others to be designated by the University authorities in each case), and must obtain credit, either by passing entrance examinations or by presenting certificates of work completed in accredited secondary schools or other recognized schools, for 15 units of high-school work, or the equivalent, in subjects accepted for admission to the University, including in the case of each college certain subjects especially prescribed for admission to that college. (See pages 68-75).

Admission to courses which give university credit, as *special students, not candidates for a degree*, may be granted to persons 21 years of age or over, subject to the general regulations of the University relating to special students.

A student who transfers from another college or university must present a letter of honorable dismissal, and transcript of record, from the institution previously attended.

## REGISTRATION

Students will present themselves for registration on Monday, June 21, 1920.

## FEES

*All fees are due upon registration.*

A tuition fee of twelve dollars (\$12) is required of all students in regular attendance at the Session. This entitles one to admission to regular courses and to all special lectures. It also entitles one to one lesson per week of music of collegiate grade. An extra laboratory fee is charged in some courses for materials used. Any single course, counting not more than two and one-half credit hours, may be taken for a fee of six dollars (\$6) and the laboratory fee, if there be any in connection with the course taken.

Fees in addition to the tuition fee are required for special work in music, except as just noted.

## SCHOLARSHIPS

By ruling of the Board of Trustees of the University, all high school teachers in Illinois, and all other teachers in the State who are qualified to matriculate in the University as regular students, are entitled to Summer Session scholarships, exempting them from payment of the tuition fee. To matriculate regularly in the University, one must either pass the entrance examinations, or present a certificate from an accredited high school or other evidence of having completed the requisite amount of preparatory work.

The Board of Trustees has extended the scholarship privileges also to persons graduated from the Illinois State Normal Schools during the academic year preceding the session in which the scholarship is desired, and to persons (otherwise qualified) who have not been teachers, but who are under contract to teach in the State during the coming year.

Application blanks for scholarships may be obtained by addressing the Registrar.

## GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high-school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence require-

ment in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

### COURSES IN LIBRARY SCIENCE

Beginning Tuesday, June 24, 1919, and continuing for six weeks, the Library School conducted courses to which were admitted only high-school graduates actually employed as librarians, or library assistants, or as teacher-librarians, or under definite appointments to serve in such positions. The curriculum met especially the needs of workers in college, public, and high-school libraries of Illinois, and no tuition fee was charged students entering from a library in this state; students entering from libraries in other states paid a tuition of \$12. The work was under the general direction of the faculty of the Library School, and the instruction was given by members of the faculty, supplemented by lectures by neighboring librarians. No credit toward a degree is given for the work.

In addition to this, courses of the regular two-year curriculum are offered to college graduates who can satisfy the entrance requirement. These courses are accepted for credit to the B. L. S. degree. Admission to these courses is conditioned on the presentation of credentials showing that the applicant holds a Bachelor's degree in Arts or Sciences from the University of Illinois or has had other equivalent training.

Application blanks for admission must be secured, and these should be filled out and sent to the Director of the School together with such additional statements as the candidate may offer, showing his qualifications for admission. The application must be filed sufficiently early to enable the School to receive replies from librarians and others who have personal knowledge of the applicant.

### COURSES FOR ATHLETIC COACHES

Courses for Athletic Coaches were established in connection with the Summer Session of 1914, under the general direction of George A. Huff, Director of Physical Education for men, to meet the growing demand, not only from high schools, but from colleges and other institutions as well, for trained men to direct and coach athletics. They were designed to assist both the high-school teacher or principal, who desired to become proficient in coaching one or more athletic teams and the man who intended to take up the directing of athletics or coaching as a vocation.

The courses were again in 1919 a feature of the Summer Session, occupying the first six weeks. All the courses were taught by the men who coach the athletic teams of the University of Illinois: in baseball (Director Huff), track athletics (Mr. Harry Gill), basketball (Mr. Ralph Jones), gymnasium (Mr. Arthur J. Schuettner), and football (Mr. Robert Zuppke). The athletic plant of the University is turned into a laboratory and a larger part of the instruction is given on Illinois Field.

Students may devote either their whole time, or part of their time to these courses. Detailed information regarding the courses for Athletic Coaches may be found in a special circular which will be sent on application to George A. Huff, Director, Gymnasium, Urbana, Illinois.

### ATHLETICS

Altho both the men's and women's gymnasiums will be used in some parts of the regular class work in Physical Education, they are nevertheless open to students not registered in those courses, for the purpose of general recreation and exercise. Both of the gymnasiums contain swimming pools, shower baths and other forms of bath, lockers, and dressing rooms. Students are charged a small sum for a locker. The tennis courts, general athletic fields, and golf course on the University campus are open to the student body.

### DESCRIPTION OF COURSES

For a description of the courses offered in the Summer Session, see the General Description of Courses, beginning on page 249.

# THE COLLEGE OF LAW

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For the *faculty* of the College of Law and for the *courses* in law, see under "Law" in the Description of Courses, Part III; for *fees* and *expenses*, page 111.

## COURSES OFFERED

The College of Law offers two curriculums leading to the degree of Bachelor of Laws (LL.B.):

(1) A three-year curriculum in law, based on an entrance requirement of two years of college work.

(2) A four-year curriculum in law and non-legal electives, based on an entrance requirement of one year of college work.

### THE THREE-YEAR CURRICULUM IN LAW

(This includes only law subjects.)

#### Admission

For admission to the three-year curriculum as a regular student an applicant must be matriculated and have 60 hours' credit in a college of this University; or have completed two full years of work as given at another college or university of recognized standing, as a matriculated student in such college or university; or have received by transfer 60 hours of university credit here.

Students from other institutions who may fall short of this requirement not to exceed five hours of credit by transfer may be admitted to the three-year curriculum as conditioned students; such conditions to be made up before the beginning of the student's second year in the college.

### THE FOUR-YEAR CURRICULUM IN LAW AND NON-LEGAL ELECTIVES

#### Admission

The four-year course is designed to permit a combination of law subjects with general courses.

For admission to the four-year curriculum as a regular student, an applicant must be matriculated and have 30 hours' credit in a college of this University, or its equivalent from another college or university of recognized standing. No conditions are permitted for admission to the four-year curriculum.

The degree of Bachelor of Laws is granted to students thus admitted who complete the 84 hours in law required in the three-year curriculum, and in addition thirty hours in other colleges, to be distributed over the four years.

Approximately two-thirds of law work and one-third in subjects other than law are to be taken during the first two years of the four-year curriculum.

## SPECIAL STUDENTS

A student who is twenty-one years of age and is entitled to admission as a regular student to the freshman class of another college of this University, will be admitted as a special student in the College of Law. If he attains in the courses of the first year an average grade of "C" or over, he will be admitted to regular standing, and he may receive the degree

of Bachelor of Laws if in all the courses he presents for the degree his average grade is "C" or more.

In exceptional cases, other persons may, by permission of the faculty, be admitted as special students.

### ADVANCED STANDING

After matriculation, an applicant may obtain advanced standing (1) by transfer of credits from another accredited law school upon presentation of a certificate of honorable dismissal and a certified record of work done; or (2) by examination taken at the time of entrance to the College of Law in first-year subjects only.

### SUGGESTED PRE-LEGAL CURRICULUM

The student entering the University with the intention of taking a law course is advised to plan his preliminary college work with great care. He is invited to consult members of the law faculty in regard to his plans. In general the following schedule of studies is recommended by the faculty of the College of Law:

FIRST SEMESTER		FIRST YEAR		SECOND SEMESTER	
	Hours <sup>1</sup>				Hours <sup>1</sup>
Hist. 2a—English History.....	3	Hist. 2b—English History.....	3		
Rhet. 1—Rhetoric and Themes.....	3	Rhet. 2—Rhetoric and Themes.....	3		
Foreign Language.....	4	Foreign Language.....	4		
Mathematics or Chemistry.....	5	Mathematics or Chemistry.....	5		
or		or			
Acc'y 1a—Principles of Accounting.....	3	Acc'y 1b—Principles of Accounting.....	3		
Phys. Ed. 1 and 1a—Gymnasium and Hygiene	1	Phys. Ed. 2—Gymnasium.....	1		
Mil. 1a—Military Drill.....	$\frac{1}{2}$	Mil. 2a—Military Drill.....	$\frac{1}{2}$		
Mil. 1b—Military Theory.....	$\frac{1}{2}$	Mil. 2b—Military Theory.....	$\frac{1}{2}$		
Total.....	17	Total.....	17		
		SECOND YEAR			
Econ. 1—Principles of Economics.....	5	Econ. 2—Money and Banking.....	3		
Hist. 3a—History of the U. S.....	3	Engl. 20—Chief English Writers.....	4		
Philos. 1—Logic.....	3	Hist. 3b—History of the U. S.....	3		
Pol. Sci. 1—American National Government.	3	Pol. Sci. 3—State and Local Government...	3		
Pub. Sp. 1—Oral Expression.....	2	Pub. Sp. 2—Extemporaneous Speaking.....	2		
Mil. 3a—Military Drill.....	$\frac{1}{2}$	Mil. 4a—Military Drill.....	$\frac{1}{2}$		
Mil. 3b—Military Theory.....	$\frac{1}{2}$	Mil. 4b—Military Theory.....	$\frac{1}{2}$		
Total.....	17	Total.....	16		

The courses in military, physical education, rhetoric, and foreign language are required of freshmen, and the second-year courses in military of sophomores, in the College of Liberal Arts and Sciences. With these exceptions the above list is intended to be suggestive rather than prescriptive.

English political and constitutional history is necessary for the understanding of our own law and government. The practical usefulness of courses in argumentation and debate, public speaking and logic is obvious.

Students who may be interested in mathematics and the physical sciences may properly substitute additional courses in these subjects in the second year. The training in the deduction of principles and their application to the solution of problems which these studies afford is held to be of distinct advantage to prospective students of the law.

Still other suggestions as to suitable electives for pre-legal students may be obtained from the outline of the General Business Curriculum, page 133.

### SIX-YEAR COMBINED COURSES

Ordinarily seven years are required to obtain the bachelor's degree in arts or science and the degree in law, but by a proper selection of studies one may take both degrees in six years. A student who has junior standing in the College of Liberal Arts and Sciences or of Com-

<sup>1</sup>Semester hours. For definition, see page 249.



merce may, subject to the approval of the Dean of the College of Law, elect not less than two of the first-year courses in law, amounting to at least five hours, and count credit therefor toward the degree of Bachelor of Arts or Bachelor of Science and toward the degree of Bachelor of Laws (LL.B.) or Doctor of Law (J.D.). Students in other departments are not permitted to elect work in law until their junior year. Students registered in the College of Law may count toward the law degrees six hours of the work offered by the College of Liberal Arts and Sciences in Jurisprudence, International Law, and Administrative Law.

The attention of students is called also to the six-year combined curriculum in Commerce and Law (page 139).

Students in a combined six-year course will need to exercise some care and foresight in order to be able to comply with the requirements of the College of Liberal Arts and Sciences or the College of Commerce as to majors, minors, and group electives within three years.

A student who is a candidate for both the A.B. degree and the degree of LL.B., or J.D., must in each semester of his fourth year register both in the College of Law and in the College of Liberal Arts and Sciences.

### **PRACTISE COURT**

The sessions of the Practise Court are held every Monday afternoon of the first semester for the third-year class, and every Monday afternoon of the second semester for the second and third year classes together. The court is presided over by Judge O. A. Harker, who has had an experience of twenty-five years as a judge of the Circuit and Appellate Courts of Illinois. It is the purpose to have the proceedings of the Practise Court conform to proceedings in the various courts of the State. Students are trained in the preparation of pleadings, brief making, legal investigation and argument, the preparation of legal documents, and in the trial of cases, both civil and criminal.

### **THE LAW LIBRARY**

The Law Library contains 30,000 volumes, including all the reports of the courts of last resort of all the states; the United States Supreme, Circuit, and District Court reports; the National Reporter System; the English reports; the Irish reports; the Scotch Appeal cases; the Current Canadian and Australian reports, and complete reports of several of the Canadian provinces; the statutes of the various states; several sets of selected cases, such as the American Reports, American State Reports, American Decisions, Lawyers' Reports (Annotated), and American and English Cases Annotated; American and English encyclopedias and digests; and a full collection of standard text-books and legal periodicals.

### **THE DEGREE OF BACHELOR OF LAWS**

The degree of Bachelor of Laws (LL.B.) is granted to regularly matriculated students who complete all the courses in the first-year list (see the outline of the curriculum below), the course in Equity (Law 12a-12b), in the second year, the one-hour course in Legal Ethics (Law 26), and enough of the other courses to make 84 hours of credit. A student having grades below "C" in subjects aggregating more than twenty-five per cent of his entire work will not be graduated.

### **THE DEGREE OF DOCTOR OF LAW**

The degree of Doctor of Law (J.D.) is granted to students who comply with the following conditions:

- (1) Complete the work required for the degree of Bachelor of Laws.
- (2) Secure a bachelor's degree in liberal arts and sciences at least two academic years prior to the completion of the courses for the degree of Doctor of Law.
- (3) Obtain a minimum average of "B" in the College of Law.

## (4) Present a thesis approved by the faculty of the College of Law.

The thesis may be returned to the writer for revision, or if unsatisfactory, it may be rejected altogether. If returned for revision it may be rejected after being revised. If accepted it will be filed in the Law Library, and may be published by the College of Law or by the University.

**CERTIFICATE FOR ADMISSION TO THE ILLINOIS BAR EXAMINATION**

Any student, altho not a candidate for a law degree, if he has taken at least ten hours a week for the period of three academic years, from among the courses offered, is entitled to a certificate thereof from the University, which certificate satisfies the requirements as to legal studies prescribed by the Supreme Court for applicants for admission to the bar examination.

**CURRICULUM**

The program of instruction in law is designed to occupy the student three full years. The most fundamental subjects are presented in the first year, the more specialized and practical topics in the second and third years. The work of the first year, thirty semester hours, is prescribed. The work of the second and third years is elective, except Equity (Law 12a-12b) in the second year. Students are required to elect courses averaging twenty-eight (28) hours for each of these years. The courses elected for either year must ordinarily be chosen from those grouped under the heading for that year. A few subjects are given only in alternate years.

First-year students may not take more than 15 hours without special permission; except that public speaking may be added without such special permission.

Second-year and third-year students may not take more than 15 hours without special permission, unless their work for the preceding semester has averaged "C" or over. If their average has been "C," 16 hours may be taken.

**CURRICULUM IN LAW****FIRST YEAR**

<b>FIRST SEMESTER</b> <i>Prescribed Subjects</i>		<b>SECOND SEMESTER</b> <i>Prescribed Subjects</i>	
	Hours <sup>1</sup>		Hours <sup>1</sup>
Law 1a—Contracts.....	3	Law 1b—Contracts.....	3
Law 2a—Torts.....	3	Law 2b—Torts.....	2
Law 3—Criminal Law.....	3	Law 7—Domestic Relations.....	2
Law 6—Personal Property.....	3	Law 10—Titles to Real Property.....	3
Law 37a—Brief Making.....	2	Law 11—Agency.....	3
Law 26.....	1	Law 37b—Brief Making.....	2
Total.....	15	Total.....	15

**SECOND YEAR**

	Hours		Hours
Law 4—Common Law Pleading.....	3	Law 42—Trial Practise.....	3
Law 8—Evidence.....	4	Law 12b—Equity.....	3
Law 12a—Equity.....	2	Law 9—Sales.....	3
Law 15—Bills and Notes.....	3	Law 20—Equity Pleading.....	2
Law 33—Real Property (Easements).....	2	Law 23—Bankruptcy.....	2
		Law 32—Mortgages.....	2
Total.....	14	Total.....	15

**THIRD YEAR**

	Hours		Hours
Law 22—Constitutional Law.....	3	Law 22—Constitutional Law.....	2
Law 31—Conflict of Laws.....	3	Law 27—Future Interests.....	3
Law 16—Trusts.....	3	Law 42—Practise Court.....	1
Law 26—Legal Ethics.....	1	Law 23—Bankruptcy.....	2
Law 36a—Practise Court.....	1	Law 23—Mortgages.....	2
Law 31—Public Utilities.....	2	Law 21—Trial Practise.....	3
Law 33—Real Property (Easements).....	2	Law 19—Partnership.....	3
Law 30—International Law.....	3		
Law 29—Office Practise.....	1		
Total.....	19	Total.....	16

<sup>1</sup>Semester hours. For definition, see page 249.

### PRIZES

Eight scholarship prizes are open to matriculated students of the first and second years, to be awarded at the end of each year, four of \$15 each semester and four of \$7.50 each semester, available in discharge of incidental fees.

The American Law Book Company, of New York, offers an annual prize, consisting of a regular edition of Cyc, including supplements, to be awarded to the senior making the best average during his senior year.

Callaghan & Company, law publishers, of Chicago, offer an annual prize, consisting of the Cyclopedic Law Dictionary, to be awarded to the member of the second-year class making the best average during his second year.

### PRIVILEGES OF STUDENTS

The students of the College of Law may take, without extra fee, courses of study in other departments of the University, provided they secure the approval of the Dean of the College of Law. Especial attention is called to the courses in public speaking and debate, and to the courses in history, economics, accounting, and political science.

Law students are entitled to library privileges in the general library as well as in the law library, and possess in general all the rights and privileges enjoyed by other students of the University, such as the use of the gymnasium, tennis courts, and golf links.

# THE COLLEGE OF MEDICINE

## BUILDING AND EQUIPMENT

The College Building is located in the city block bounded by Harrison, Congress, Honore, and Lincoln streets, Chicago. For description, see page 59.

## CLINICAL FACILITIES

### Dispensary

The Dispensary occupies the first floor and part of the second floor of the College Building. It is divided into ten departments: medicine, surgery, pediatrics, orthopedics, laryngology, dermatology, ophthalmology, gynecology, neurology, and genito-urinary diseases. Twenty-two thousand and seventy-nine treatments were given in 1918-19. New patients were registered during the same period.

Opportunities are afforded the student to examine the cases personally under the guidance of instructors. As far as possible, the student is required to make laboratory examinations pertaining to his own cases. Such examinations as the Wassermann reaction are made by the instructors in the laboratory, but the student has an opportunity to follow these and to learn the technic involved.

### Clinics

In addition to those in the dispensary more than 600 clinics in various hospitals are open to students. The great majority of diseases seen in the temperate zone are demonstrated and most of the operations of surgery are performed in these clinics.

Fourth-year students are required to examine and diagnose many cases, and under certain conditions may assist in operations.

*The Cook County Hospital* is located within half a block of the College. This institution is the largest charity hospital in America. During the past year, it has cared for 69,326 patients. In this hospital is conducted much of the clinical instruction of the College. Medical appointments in this institution are made each year by the Civil Service Board. The internes, 64 in number, are selected each spring by competitive examination. Only graduates of medical colleges of Cook County are eligible for these examinations. The internes serve eighteen months.

*The County Morgue* is located in the hospital grounds, and daily post-mortems are held by the pathologists of the hospital.

The hospital tickets, costing \$5.00 each, for sale at the office of the Warden, admit the holders to all clinics and autopsies and to all public operations and lectures.

*The University Hospital* is located at the corner of Congress and Lincoln streets, opposite the College. The Directors of the hospital are members of the faculty of the College. Approximately forty per cent of the clinical instruction of the College is conducted in this institution. Bedside instruction is given, under certain conditions, to small groups of students. No students, excepting those of the College, were admitted to clinical instruction in the hospital during the year 1919-20. The selection of internes for this hospital is limited to graduates of the College.

Clinical instruction to students in small groups, and bedside instruction to those serving as externes, may be given in the following hospitals:

Augustana Hospital  
Michael Reese Hospital  
St. Luke's Hospital

Illinois Charitable Eye and Ear Infirmary  
St. Mary's of Nazareth Hospital  
St. Joseph's Hospital

In addition to the above, there are more than sixty public and private hospitals in Chicago, each of which appoints from two to four internes annually.

### ANNOUNCEMENT OF NEW HOSPITAL FACILITIES

The last General Assembly appropriated \$300,000 for the construction of a medical clinical building. This building will be devoted to the treatment and investigation of those diseases which belong in the fields of general medicine, surgery, obstetrics, and gynecology.

The purposes of the Clinical Building are clearly set forth by President James in the following words: "This clinical building will not be a hospital in an ordinary sense at all. It will not undertake to treat the general run of hospital patients. Its facilities will be reserved for "cases," that is, for patients whose cases are of interest from the standpoint of medical science and art. Provision will be made for keeping chronic cases of interest and special value for instruction and scientific purposes for a length of time determined solely by the scientific value of the case."

The last General Assembly also appropriated about \$1,000,000 to the State Department of Public Welfare for the construction of a group of educational hospitals in the city of Chicago. This group is to begin with the construction of the Illinois Charitable Eye and Ear Infirmary, a Psychiatric Institute, and a Surgical (Orthopedic) Institute for Children.

On July 5, 1919, the State Department of Public Welfare and the State University agreed to a plan of cooperation and differentiation to construct and maintain a great group of hospitals and institutes in the medical center of Chicago where laboratories, libraries, and medical skill can be readily obtained; to provide medical treatment for the indigent sick of the State; to give young men and women a medical education and training such that they will become active soldiers in the warfare for the prevention as well as the cure of disease; to help practising physicians of the State to keep in touch with the latest and best methods of preventing and curing human ailments; to tell the people of the State through special lectures and bulletins how to keep themselves physically efficient. The greatest object of all is to find out the cause of sickness and prevent it.

### Library Facilities

The Quine library of the University of Illinois Colleges of Medicine and Dentistry is housed on the second floor of the medical building. It includes 21,026 bound volumes and a number of reprints and separates. The pharmacy collection occupies a part of the main floor of the School of Pharmacy building. It contains 3,376 volumes, and ranks as one of the largest pharmaceutical libraries in the country. In addition to these two collections, many of the departments of the three schools are supplied with working libraries.

The John Crerar Library, containing files of journals, monographs, separates, and standard texts, covering practically the entire field of medicine, is easily accessible from the College.

The collections of the library include the standard text-books, works of reference, monographs, and journal files in the fields of medicine, dentistry, and pharmacy.

### ADMISSION

For the requirements for admission, see page 76.

### ADMISSION OF SPECIAL STUDENTS

The general rule of the University with reference to special students will apply to the College of Medicine: Persons over twenty-one years of age, *not candidates for a degree*, may, on approval of the dean, be admitted to classes for which they are prepared.

**ADVANCED STANDING**

The University will accept scholarship and time credits for work done in medical colleges having standards equal to those of the College of Medicine of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the college in which he has pursued his medical studies.

Deficiencies due to differences in the curriculums will be adjusted with the understanding that these will be satisfactorily met during the first year of the student's residence in this institution.

Further, his record must be of such a character as to give evidence of high scholastic attainment.

**REGISTRATION**

Students are required to register in the office of the Secretary immediately upon the opening of the term for the work of that term, and credit will be allowed only in the branches in which they are registered. Students will be registered in the order in which their fees are paid. Registration closes ten days after the opening of each term.

**COLLEGIATE YEAR**

On February 1, 1919, the College of Medicine of the University of Illinois returned to the operation of the semester system. The collegiate year ended June 11, 1919.

The collegiate year of 1919-20 will consist of a session of 36 weeks, beginning October 1, 1919, and ending June 16, 1920. The year is divided into two semesters of eighteen weeks each. Attendance on the full session is required in order to secure credit for a year's work, and attendance on four full sessions is required for graduation.

**FEES AND EXPENSES**

	Fees <sup>1</sup>			
	First Year	Second Year	Third Year	Fourth Year
Matriculation <sup>2</sup> .....	\$ 10.00	.....	.....	.....
Registration.....	5.00	\$ 5.00	\$ 5.00	\$ 5.00
General ticket.....	120.00	120.00	140.00	155.00
Laboratory.....	30.00	35.00	5.00	.....
Diploma.....	.....	.....	.....	10.00
	<hr/>	<hr/>	<hr/>	<hr/>
	\$165.00	\$160.00	\$150.00	\$170.00

NOTE.—County Hospital ticket, \$5.00. Maternity Fee, Chicago Lying-In Hospital, \$15.00.

All fees are payable in advance. The entire matriculation fee and laboratory fee are due and must be paid during the registration days of the first semester, together with one-half of the general fee. The remainder of the general fee is due and payable on the registration days of the second semester.

<sup>1</sup> The term "year" in this schedule of fees refers to a period of instruction covering two terms of eighteen weeks or the equivalent thereof.

All students taking Gross Anatomy are required to make a deposit of \$10.00 for the use of a disarticulated skeleton. This deposit is returned to the student at the end of the year on the return of the material.

The Trustees reserve the right to change the fees at any time through publication in the annual announcement.

<sup>2</sup> Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

Exceptions to this rule will be made only with the approval of the proper administrative officer.

There are no fees for special courses or quizzes. No members of the instructional staff are allowed to accept special fees.

Fees charged special students are based on the amount of work taken.

Alumni are admitted to all regular courses, without charges, except in laboratory work, in which a charge is made for material actually used.

Each student is required to have an individual microscope. Provision has been made whereby the student can purchase a microscope at reduced rates and pay for the same in annual installments. If a student be unable to purchase a microscope, the school will rent him one for his exclusive use at the rate of \$2.50 to \$4.00 per term, depending upon the equipment of the instrument.

### **Living Expenses**

The expense of living in Chicago is less than in most other large cities. From forty to fifty dollars per month may be regarded as adequate for the ordinary living expenses of a student exclusive of books, clothing, railroad fare, and miscellaneous needs.

The expense for books varies between \$25.00 and \$50.00 a year. The instructors at the beginning of each course direct their students in regard to the purchase of text-books.

### **SCHOLARSHIPS**

Through the generosity of the late Professor R. L. Rea a fund has been provided for four scholarships each year for worthy students. These scholarships are awarded annually by the officers of the Faculty.

For the session of 1919-20, they were granted to the following students:

Edward P. Gramer

Ralph W. Hoffman

John W. Johnson

Isaac Karlin

Benjamin Levin

Frank Richmond

Frank K. Williams

The scholarship given by the Northwestern branch of the Woman's Foreign Missionary Society of the Methodist Episcopal Church was awarded to Elizabeth Smith.

For information concerning other scholarships available to students in the College of Medicine, see page 103.

### **COURSES OFFERED**

The student is offered his choice of the following courses:

1. A course of eight years—four years in the College of Liberal Arts and Sciences at Urbana, leading to the degree of Bachelor of Arts, followed by four years in the College of Medicine in Chicago, leading to the degree of Doctor of Medicine. This plan not only gives a liberal course of study and a medical course as well, but offers opportunity in the last two years of the medical course for specializing in chosen lines. This course of study is recommended to young men who can afford the time for it, and who are of the average age of graduation from the public high schools.

2. A seven-year course—three years in the College of Liberal Arts and Sciences at Urbana, followed by four years in the College of Medicine in Chicago. Students taking this course are permitted, at the end of their first year in the College of Medicine, to transfer credits in the medical sciences to complete the requirements for graduation of the College of Liberal Arts and Sciences, and receive the degree of Bachelor of Arts. On the

completion of the remaining three years in the College of Medicine they receive the degree of Doctor of Medicine.

3. A six-year course—two years in a recognized College of Liberal Arts and Sciences followed by four years in the College of Medicine. The work of the first two years must include certain prescribed subjects. On the completion of the first two years in the College of Medicine, these students receive the degree of Bachelor of Science; and on the completion of the four years in the College of Medicine, they receive the degree of Doctor of Medicine. The two years of work in arts and sciences required for admission to the College of Medicine may be taken in the College of Liberal Arts and Sciences at Urbana.

### Electives

The student is required to select from a number of courses offered for this purpose, two hours of work in the third year and six hours of work in the fourth year.

### Optional Work

Optional courses supplementary to the required work of the regular curriculum are offered in many departments. Students may be permitted to register for such courses after completing the work of the first year with the consent of the committee. No credit toward the degree in medicine is allowed for this work.

### Grades

The passing grade in each subject is 70. A grade from 60 to 70 constitutes a "condition." A mark below 60 or the failure to remove a "condition" by re-examination constitutes a "failure," and the subject must be repeated in course. One and one-half hours of condition is counted as the equivalent of one hour failure. A student who in any term receives failures in one-half the total number of hours of his course, or the equivalent in conditions, or in failures and conditions combined, shall be refused further registration in the College of Medicine.

### Examinations

General examinations are held in all subjects at the end of each term during the week set apart for this purpose. Absences from these examinations count as failures unless they occur for satisfactory reasons, in which case the student may be examined at the discretion of the instructor.

Examinations for the removal of conditions in the work of the first three years are held during the week preceding the opening of the next collegiate year. For subjects presented in the first term of the fourth year, re-examinations are held not later than two weeks from the end of that term.

### Promotions

A student who has any failure standing against him shall not be advanced to the next year without the permission of the committee on promotion. Under no circumstances will a student be permitted to register for any third-year subjects if he has a failure standing against him in the work of the first year. Nor will a student be permitted to register for any fourth-year subjects if he has a failure standing against him in the work of the second year.

Students who fail in subjects given in the first term of the fourth year totaling more than 48 hours will not be admitted to candidacy for graduation in that collegiate year, but must repeat the subject the following year. No student will be recommended for graduation in medicine who has conditions in subjects amounting to more than 96 hours.

No student having grades below 75 in subjects aggregating twenty-five per cent of his entire work in the junior college will be recommended for the degree of Bachelor of Science.



### Reports

Reports on scholarship and attendance are mailed to all students as soon as possible after the end of each term.

### REQUIREMENTS FOR GRADUATION

A candidate for graduation from the College of Medicine of the University of Illinois must meet the following requirements:

1. He must have presented acceptable evidence of good moral character.
2. He must have paid all indebtedness to the college.
3. He must have completed the prescribed curriculum of the College of Medicine, comprising four years, of thirty-four weeks each. Students admitted to advanced standing from other medical schools will not be given full time credit for any year of less than thirty-two weeks of actual work. The candidate must obtain satisfactory credits in all required subjects and pass his final examinations in accordance with the rules laid down by the faculty. The last year of work must have been taken in the University of Illinois College of Medicine.
4. Persons matriculating as first-year medical students for the year beginning October 1, 1917, or thereafter, after completing satisfactorily the four-year curriculum referred to above (in paragraph 3), must complete satisfactorily a hospital course of not less than twelve months duration in a hospital approved by the faculty of the College of Medicine of the University of Illinois, before receiving the degree of Doctor of Medicine.

In order to be eligible for an internship in an approved hospital in Illinois a candidate must pass the regular examination of the Illinois State Board of Health and receive from that Board a "limited license," authorizing him "to practise medicine or surgery in a hospital approved by the Illinois State Board of Health and in no other place whatsoever in this State, said limited license to remain in force and effect for a period not exceeding eighteen months from date of issue of same." (Schedule of Minimum Requirements for Medical Colleges in good standing with the Illinois State Board of Health as amended January 27, 1918).

The diploma for the degree of Doctor of Medicine will be issued upon the presentation of satisfactory evidence that the hospital year has been acceptably completed.

The rules of the Illinois State Board of Health make the following provision for the issuance of the permanent license:

"At the expiration of the limited license and surrender of same, or upon the completion of the twelve-months hospital course and the surrender of the limited license, and upon presentation of satisfactory evidence that the hospital course has been completed within eighteen months subsequent to the date of completion of the fifth year of the medical course, and further that the candidate presents a diploma of graduation by the medical college, school, or institution in which he or she completed the fifth year of the medical course, the State Board of Health may then issue to the holder of said temporary or limited license a regular permanent certificate, without further examination or fee, provided that all other requirements prescribed by the Act regulating the practise of medicine in the State of Illinois and by the rules of the Illinois State Board of Health relating thereto have been satisfactorily complied with."

### GENERAL PLAN OF INSTRUCTION

The course of study extends over four years. During the first two years the work is, in the main, confined to the sciences fundamental to practise medicine, and the time of the student is largely devoted to laboratory work; during the first year, this consists of work in anatomy, chemistry, embryology, histology, and physiology. During the second year

the study of anatomy and physiology is continued, and in addition the student takes up bacteriology, laboratory diagnosis, operative surgery, pathology, materia medica, pharmacology, therapeutics, and hygiene.

During the third and fourth years the time is largely devoted to the various clinical branches, emphasis being given to practical instruction in dispensary and hospital clinics.

Students are prohibited from doing work that interferes in *any way* with the fulfillment of the requirements of the curriculum. Unofficial clinical work may not be substituted for the official clinical requirements of the curriculum.

# DESCRIPTION OF COURSES IN MEDICINE<sup>1</sup>

## ANATOMY, HISTOLOGY, EMBRYOLOGY

ALBERT CHAUNCEY EYCLESHYMER, M.D., Ph.D., *Professor and Head of the Department*

ROY LEE MOODIE, Ph.D., *Assistant Professor*

ARTHUR REUBEN COOPER, A.M., Ph.D., *Associate*

JOHN W NUZUM, M.D., *Instructor*

OSCAR EUGENE NADEAU, M.D., *Instructor*

THOMAS SMITH JONES, B.F.A., *Artist*

GENEVIEVE LOUISE MEAKIN, *Artist*

LOUIS N BOELIO, *Technician*

HARRY ARMSTRONG, D.D.S., *Technician*

ADOLPH HAMMER, *Director of Plastic Studio*

### General Statement

The laboratories for gross anatomy comprise two dissecting rooms and a number of smaller rooms for embalming, storing, and prosecting. A plastic studio is situated on the sixth floor adjacent to the dissecting room and is available for anatomical reconstruction work and the use of models for teaching purposes. The laboratories for histology and embryology, together with the offices and research laboratories, are situated on the third and fourth floors of the Medical Building. The equipment includes apparatus for embalming, sectioning, macerating, corroding, and digesting; microtomes, microscopes, paraffin ovens, drawing apparatus, chemicals, glassware, and Grubler stains. A small museum contains special dissections, osteological preparations, and models; sets of histological, neurological, and embryological slides; charts, lantern slides, and other teaching accessories. The departmental library contains the standard texts and about two thousand five hundred special monographs. All the English, German, and French anatomical journals are received. The Crerar Library is readily accessible and makes it possible to consult practically the whole literature of anatomy, biology, and zoology.

### Required Courses—First Year

**22. Embryology.**—Ovogenesis and spermatogenesis, maturation, ovulation and its relation to menstruation, fertilization, segmentation, gastrulation, formation and significance of germinal layers; formation of foetal envelopes and placenta; organs, and systems of organs; congenital malformations. Lectures and recitations: 2: laboratory; 2 two-hour periods. *II (first half).* Assistant Professor MOODIE and assistants

**23. Cytology, Histology, and Microscopic Anatomy.**—Animal cells; modified cells in blood and lymph, epithelial, connective, muscular, and nervous tissues, and their relationships in the body. Lectures and recitations; 3: laboratory; 3 three-hour periods. *I.*

Professor EYCLESHYMER, Dr. COOPER, and assistants

**25. Neurology.**—The gross and microscopic anatomy of the brain, spinal cord, and organs of special sense. Lectures and recitations; 2: laboratory; 2 two-hour periods. *II (second half).* Laboratory work, two periods of two hours each per week, *II (first half).*

Assistant Professor MOODIE and assistants

<sup>1</sup> The Arabic numerals preceding the captions indicate the number of the courses. Courses numbered with the letter X following the numeral, are optional subjects in which 1 hour of work per semester is required in the third year and 3 hours in the fourth year. Unless otherwise specifically stated, the Arabic numerals following the descriptions of courses indicate the number of one-hour periods. The Roman numerals *I* and *II* indicate the number of semesters over which the course extends.

**27-28. Regional and Systematic Anatomy.**—Complete dissection of the human body: (1) Superior and inferior extremities, (2) thorax and abdomen, (3) the head and neck. Anatomical structure, functional significance, regional relationship of surgical and clinical importance, and structural variation of the component organs and systems. Lectures, recitations, and laboratory; 3 three-hour periods. *I, II.* Dr. NUZUM and assistants

#### Required Courses—Second Year

**31. Topographical Anatomy.**—Topography and relations of the various regions, systems, and organs of the body. Lectures and recitations; 2: laboratory; 2 three-hour periods, *I.* Assistant Professor MOODIE and assistants

**Applied and Surgical Anatomy.**—(See department of surgery.)

#### Optional Courses

**50. Microscopical Technic.**—Preparation of objects; injecting blood vessels and lymphatics; maceration, digestion, and corrosion; decalcification, fixation of tissues, embedding, sectioning, staining, and mounting. Mr. BOELIO

**53. Medical Illustrating.**—Drawing, including perspective; values and their adaption in the representation of medical subjects; normal and pathological specimens, both gross and microscopic; media adapted for representing certain conditions and structures, and for special methods of reproduction, such as line work, half tone, and lithography.

Mr. JONES

**56. Embryology and Histogenesis.**—The structural changes in the principal tissues and their cellular elements during growth; changes in the structure of cells during senescence. Professor EYCLESYMER

**59. Neurology.**—Relation of nervous system to body growth.

Assistant Professor MOODIE

#### Courses Preparatory to Specialization (Special Fee)

62. a. The Eye.
- b. The Ear.
- c. Mouth, Nose, and Throat.
- d. The Thorax and Abdomen.
- e. The Genito-Urinary System.
- f. Pelvic Anatomy.
- g. The Extremities, especially the joints and their mechanism.
- h. The Brain and Spinal Cord.

**Research.**—Physicians who desire to do research and students who have had three years of university training are invited to begin research work in this department. A reading knowledge of French and German is essential.

**65-66. Seminar.**—Critical reviews of recent anatomical literature; preparation of bibliographies and of scientific papers for publication. Presentation and discussion of the results of investigations.

#### Courses for Graduates

**101. Histogenesis.**—The structural changes in tissues and their elements, which are directly correlated with normal processes, such as growth, activity, rest, fatigue, senility. *One unit.* Professor EYCLESYMER, Assistant Professor MOODIE

**103. Individual Research in Embryology and Histogenesis.**—*One or two units.*

Professor EYCLESYMER, Assistant Professor MOODIE

# DERMATOLOGY

\_\_\_\_\_, *Assistant Professor and Acting Head of the Department*  
 FRANCIS EUGENE SENEAR, B.S., M.D., *Associate*  
 JULIAN MARKS, M.D., *Assistant.*

## Required Courses—Fourth Year

1. Practise.—Illustrated. 2. I. Dr. SENEAR
  5. Clinic.—College. 1. I. Dr. SENEAR, Dr. MARKS
  - 9-10. Clinic.—College Dispensary. In sections. 3 one-hour periods (*three weeks*).
- II.

# MEDICINE

CHARLES SPENCER WILLIAMSON, M.S., M.D., *Professor of Medicine and Head of the Department*

## DIVISION OF INTERNAL MEDICINE

CHARLES SPENCER WILLIAMSON, M.S., M.D., *Professor of Medicine*  
 FREDERICK TICE, M.D., *Professor of Medicine*  
 MAURICE LOUIS GOODKIND, M.D., *Professor of Medicine*  
 JOSEPH MCINTYRE PATTON, M.D., *Professor of Medicine*  
 FRANK SMITHIES, M.D., *Associate Professor of Medicine*  
 EDWARD LOUIS HEINTZ, Ph.G., M.D., *Associate Professor of Medicine and Clinical Medicine*  
 MAURICE LEWISON, M.D., *Associate Professor of Physical Diagnosis*  
 ARTHUR RICHARD ELLIOTT, M.D., C.M., *Associate Professor of Medicine*  
 JOHN WEATHERSON, C.E., M.D., *Associate Professor of Medicine*  
 ERNEST SISSON MOORE, M.D., *Assistant Professor of Clinical Medicine*  
 FRANK CHAUVET, M.D., *Assistant Professor of Physical Diagnosis*  
 GEORGE JOHN LORCH, Ph.G., M.D., *Associate in Medicine*  
 JOHN CHARLES MATHEW KRASA, M.D., *Associate in Medicine*  
 LAURENCE HAMPSON MAYERS, A.M., M.D., *Associate in Medicine*  
 WALTER BRADFORD METCALF, M.D., *Associate in Clinical Medicine*  
 FRED RAYMOND CROOKS, M.D., *Associate in Medicine*  
 FRANKLIN S WILSON, Ph.G., M.D., *Associate in Clinical Medicine*  
 STEPHEN ROMAN PIETROWICZ, M.D., *Associate in Medicine*  
 ROBERT LUDWIG FURBY, M.D., *Instructor in Medicine*  
 CLARENCE JAMES McMULLEN, M.D., *Instructor in Medicine*  
 WILLIAM JOSEPH QUIGLEY, M.D., *Instructor in Medicine*  
 FRANK JOSEPH JIRKA, M.D., *Instructor in Clinical Medicine*  
 JAMES CRAIG SMALL, M.D., *Instructor in Medicine*  
 ALBERT VANDER KLOOT, M.D., *Instructor in Medicine*  
 ALLEN JOSEPH HRUBY, M.D., *Assistant in Medicine*  
 BENJAMIN GOLDBERG, M.D., *Assistant in Medicine*  
 LEO JACOB JACOBSON, M.D., *Assistant in Medicine*  
 JAMES STEVENSON, M.D., *Assistant in Medicine*  
 ROBERT G SAVAGE, M.D., *Assistant in Medicine*  
 ELMER W MOSELEY, M.D., *Assistant in Medicine*  
 SIDNEY A PORTIS, M.D., *Assistant in Medicine*  
 WILLIAM T ROGERS, M.D., *Assistant in Medicine*  
 WALKER ELLSWORTH MCCORKLE, M.S., M.D., *Assistant in Medicine*

## General Statement

The work in this department begins in the second year and extends through the third and fourth years. In the second year the student begins his work in internal medicine

with the study of physical diagnosis, on the normal subject. This is followed by the study of pathological cases. The class is divided into small groups, so that the instruction is individual.

Coincident with the above work, the student takes up the study of laboratory diagnosis. A course in this subject lays the foundation for the practical clinical work in the dispensary, which begins in the third year and is carried through the fourth year.

In the third year instruction is carried on partly by means of conferences and recitations and partly by clinics. This division of work enables the student not only to obtain systematic instruction in the fundamentals of internal medicine, but also to see clinical cases presented, bearing directly on this systematic instruction. At the same time he has opportunity to come into intimate contact with patients, and to examine them in the dispensary under supervision. Stress is laid upon the student's personal examination and treatment of the cases.

In the fourth year instruction is carried on partly by means of conferences with group quizzes on the topics covered. This is a continuation of the work in the third year. A large part of the work, however, is clinical, and is given not only in the College, but in the Cook County, University, St. Luke's, and Augustana Hospitals. In addition, practical work is given in the dispensary in the various medical specialties.

#### Required Course—Second Year

2a-2b. **Physical Diagnosis.**—(a) Lectures; 1. *I*. (b) Practical drill on normal subjects; given to small sections of the class. 1 two-hour period. *I*.

Associate Professor LEWISON, Assistant Professor CHAUVET

#### Required Courses—Third Year

9. **Practise.**—General survey of the important diseases as a working basis preparatory for the clinical courses. Conferences and recitations. 4. *II*.

Associate Professor HEINTZ, Dr. LORCH, Dr. CROOKS, Dr. FURBY, Dr. KRASA, Dr. ROGERS, Dr. STEVENSON, Dr. SMALL

13. **Clinic.**—University Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Assistant Professor HEINTZ

15. **Clinic.**—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Associate Professor LEWISON

23. **Physical Diagnosis Clinics.**—Cook County Hospital, tuberculosis wards. To small groups. 1. *I*.

Associate Professor LEWISON, Assistant Professor CHAUVET

27-28. **Clinic.**—Dispensary. Practical work on out-patients. Practically every variety of disease of an ambulatory nature common to the temperate zone may be seen here. In sections, 3 two-hour periods (*three weeks*). *II*.

Assistant Professor MOORE, Dr. METCALF, Dr. WILSON, Dr. MOSLEY, Dr. MAYERS, Dr. JIRKA

#### Required Courses—Fourth Year

31-32. **Practise.**—Continuation of course of study of previous year; subject elaborated and amplified in conjunction with the clinical work. Lectures illustrated by pathological specimens, charts, and lantern slides; conferences; 4, *I*; 2, *II*.

Lectures, Professor WILLIAMSON, Professor TICE  
Conferences and recitations, Associate Professor WEATHERSON

35. **Clinic.**—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I*. Professor WILLIAMSON

37. Clinic.—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I.* Professor TICE

39. Clinic.—Cook County Hospital Amphitheater. Selected topics. 1 two-hour period. *I.* Professor PATTON

41. Clinic.—St. Luke's Hospital. Gastro-intestinal, cardio-vascular, and renal diseases. Diagnostic analysis. Collateral reading. 1 two-hour period. *I.*

Associate Professor ELLIOTT

47. Clinic.—Augustana Hospital. 1 two-hour period. *I.*

Associate Professor SMITHIES

49-51. Seminar.—Work in cooperation with the departments of surgery and obstetrics. The student receives 48 hours credit, 16 in each department, although the work is done only in one department. The entire class is divided into three groups, and each of these again into five sub-groups. During the first semester, the groups meet informally and abstracts are prepared and submitted for criticism. During the second semester, each group is assigned one hour in which to present its work before the entire class.

Assistant Professor MOORE, Dr. MAYERS

### Optional Courses—Third Year

1-X. Tuberculosis.

Assistant Professor CHAUVET

2-X. Tuberculosis of the Lymphatic System.

Dr. METCALF

### Optional Courses—Fourth Year

3-X. Diseases of the Blood. (*Eight weeks.*)

Assistant Professor MOORE

4-X. Tuberculosis. (*Eight weeks.*)

Assistant Professor MOORE

5-X. Diseases of the Kidneys and Metabolism.

Associate Professor ELLIOTT

6-X. Diseases of Pancreas and Intestines.

Associate Professor SMITHIES

### DIVISION OF PEDIATRICS

JULIUS HAYS HESS, M.D., *Professor of Pediatrics and Head of the Division*

HENRY EUGENE IRISH, M.D., *Assistant Professor of Pediatrics*

MAURICE LAMM BLATT, M.D., *Assistant Professor of Pediatrics*

LESTER EDWARD BOWER, M.D., *Associate in Pediatrics*

SOLOMON MAXWELL GOLDBERGER, M.D., *Instructor in Pediatrics*

LADISLAV STOLFA, M.D., *Assistant in Pediatrics*

JAMES JOSEPH LEACH, M.D., *Assistant in Pediatrics*

ISADOR MICHAEL LEVIN, S.A., M.D., *Assistant in Pediatrics*

CRAIG D BUTLER, M.D., *Assistant in Pediatrics*

JOSEPH K CALVIN, M.D., *Assistant in Pediatrics*

HERBERT CHAPMAN CAROTHERS, M.D., *Assistant in Pediatrics*

### General Statement

The work in pediatrics is given in the third and fourth years. So far as possible, the course is one of individual instruction, the class being divided into small groups for clinical work.

### Required Courses—Third Year.

1. Practise and Clinic.—Nutrition and nutritional disturbances in infancy. Lectures; clinical conferences. 1. *I.* Professor HESS

4. Practise.—Recitations. 1. *I.*

Assistant Professor IRISH and assistants

7. Clinic.—Cook County Hospital. Physical diagnosis and demonstration of cases. In groups; 2 (*four weeks*). Dr. BOWERS
9. Clinic.—Cook County Hospital. Contagious diseases. In groups; 2 (*four weeks*). Assistant Professor BLATT

#### Required Courses—Fourth Year

11. Clinic.—Cook County Hospital. Contagious diseases. In groups; 2 (*four weeks*). Assistant Professor IRISH
- 15-16. Clinic.—Dispensary. In sections; 5 two-hour periods (*four weeks*). II. Dispensary Staff
19. Clinic.—Cook County Hospital. In groups. One two-hour period. I or II. Professor HESS

#### DIVISIONS OF NEUROLOGY AND PSYCHIATRY

H DOUGLAS SINGER, M.D., M.R.C.P., *Professor of Psychiatry and Head of the Divisions*  
 CHARLES F READ, M.D., *Assistant Professor of Neurology and Psychiatry*  
 EDWARD FRANKLIN LEONARD, M.D., *Assistant Professor of Neurology*  
 RALPH CHES PURNELL TRUITT, M.D., *Assistant Professor of Neurology and Psychiatry*  
 SAMUEL N CLARK, M.D., *Instructor in Neurology and Psychiatry*

3-4. Practise and Clinic.—Dispensary and Chicago State Hospital. Lectures, demonstrations, examination and diagnosis; in sections; 6 two-hour periods (*eight weeks*) I, and 1 two-hour period. I.

Professor SINGER, Assistant Professor READ, Assistant Professor LEONARD, Assistant Professor TRUITT, Dr. CLARK, Dr. HULBERT

#### DIVISION OF ROENTGENOLOGY

ADOLPH HARTUNG, M.D., *Assistant Professor of Roentgenology*  
 HONORÉ DIEUDONNÉ VALIN, M.D., *Technician in Roentgenology and Dispensary Laboratory*

#### Required Course—Fourth Year

4. Practise and Demonstration.—College. The use of the X-ray in medicine and surgery. To small sections: 1 (*four weeks*).

#### DIVISION OF HISTORY OF MEDICINE

BERNARD JOHN CIGRAND, M.S., D.D.S., *Lecturer*

#### Optional Course—Fourth Year

51. Lectures; 1. I.

#### OBSTETRICS AND GYNECOLOGY

CHARLES SUMNER BACON, M.D., *Professor of Obstetrics and Clinical Obstetrics and Head of the Department*  
 HENRY FOSTER LEWIS, M.D., *Professor of Obstetrics and Clinical Obstetrics*  
 RACHELLE S YARROS, M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*  
 OTTO HERMAN ROHRLACK, Ph.G., M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*  
 WALTER CHARLES HAMMOND, M.D., *Associate in Obstetrics*  
 FRANK LEE STONE, M.D., *Associate in Obstetrics*  
 ANNIE ESTHER BARRON-HARRISON, M.D., *Instructor in Obstetrics*



CHARLES NEWBERGER, M.D., *Instructor in Obstetrics*  
 EDWARD MORTON HEACOCK, M.D., *Instructor in Obstetrics*  
 JULIUS LACKNER, M.D., *Instructor in Obstetrics*  
 SAMUEL ABRAHAM DURR, M.D., *Assistant in Obstetrics*  
 GEORGE WILLIAM HAAN, JR., M.D., *Assistant in Obstetrics*

### General Statement

Instruction is given in both the third and fourth years. The equipment consists of manikins, demonstration pelves, malformed pelves, and other pathological specimens, charts, obstetrical instruments, and prepared fetuses.

The clinical work is given in the University Hospital, the College Dispensary, and the Chicago Lying-In Hospital and Dispensary. Bedside and dispensary clinics, in which students examine and study the patients, are given to small groups in the College Dispensary and in the University Hospital. Students are required also to assist in the delivery of twelve parturients. Reports of these cases are kept by students and form the basis of conference discussions. An amphitheater clinic is given to the fourth-year class.

All fourth-year students are required to take a course of two weeks in residence in the Chicago Lying-In Hospital and Dispensary. This Dispensary, located in the heart of a densely populated part of the city, cares for poor women during their confinement at their homes. A physician, a student, and a nurse are sent to care for the patient during her labor. A student and nurse visit her daily for ten days afterward. The fee for the course is \$15.00, payable in advance at the Dispensary.

### Required Courses—Third Year

5-6. *Physiology of Pregnancy, Labor, the Puerperium, and the New Born Infant.*—Lectures and recitations; 2. *II.*

Associate Professor YARROS, Dr. HAMMOND, Dr. HEACOCK, Dr. LACKNER

Laboratory.—The anatomy and histology of the obstetrical passages and passenger. To small groups, 1 two-hour period (*four weeks*).

9. *Clinic.*—University Hospital. Instruction at bedside and in the out-patient department. The class is divided into groups. 6 (*two weeks*).

Professor BACON, Associate Professor ROHLACK, Dr. BARRON-HARRISON

12. *Clinic.*—University Hospital. The class is divided into groups. The work covers attendance upon the delivery of six parturients.

### Required Courses—Fourth Year

15-16.—*Pathology of Pregnancy, Labor, and the Puerperium.*—Lectures and recitations; 3. *I.*

Professor BACON, Associate Professor ROHLACK, Dr. HEACOCK, Dr. HAMMOND

(a) Laboratory work in pathological anatomy and histology. To small groups, 1 two-hour period (*four weeks*).

(b) Manikin work. To small groups; 1 two-hour period, (*eight weeks*).

Associate Professor BACHELLE, Dr. STEFFAN

19. *Clinic.*—University Hospital. To small groups, 6 (*two weeks*).

Professor BACON, Associate Professor ROHLACK, Dr. BARRON-HARRISON

22. *Clinic.*—University Hospital. Demonstrations and operations. 1. *I.*

Professor BACON

25. *Clinic.*—University Hospital. To small groups. The work covers attendance upon the delivery of six parturients.

**26. Clinic.**—Chicago Lying-In Hospital and Dispensary. Residence, two weeks; at least six cases.

**47-48. Seminar.**—This work is done in cooperation with the Departments of Medicine and Surgery. For this work the student receives 48 hours credit, 16 in each department, although the work is done only in one department. The class is divided into three groups, and each of these again into five sub-groups. The purpose of this seminar is to give the student a working knowledge of the medical literature, and to acquaint him with the methods of looking up the work which has been done on any special subject. During the first semester the groups will meet informally, but abstracts will be prepared and submitted for criticism, and the student will be graded on the basis of these abstracts. During the second semester each group will be assigned one hour in which to present its work before the entire class.

Professor BACON and assistants

### Optional Course—Third Year.

- 1-X. Ovulation, Fertilization, and Placentation. 1. I. Dr. KAMPMIER

### Optional Courses—Fourth Year

- 1-X. Puerperal Infection. 1. II. Associate Professor ROHRLACK  
 2-X. Relation of Endocrinology to Obstetrics and Gynecology. I. Dr. FISCHMANN  
 3-X. Review Course in Obstetrics. 1. II. Dr. BERNSTORF

### DIVISION OF GYNECOLOGY

CHANNING W BARRETT, M.D., *Professor of Gynecology and Head of the Division*

JOHN MICHAEL LANG, M.D., *Assistant Professor of Clinical Gynecology*

EGAN WALTER FISCHMANN, M.D., *Assistant Professor of Gynecology*

ALBERT JOHN SCHOENBERG, M.D., *Associate in Gynecology*

FRANK LEE STONE, M.D., *Associate in Gynecology*

LEO ANTHONY JUHNKE, M.D., *Instructor*

MATHILDA OSBORNE LICHNER, M.D., *Assistant*

GOLDYE HOFFMAN, M.D., *Assistant*

### General Statement

The subject of Gynecology is presented in the fourth year in the form of didactic teaching, recitations, quizzes, clinics, conferences and laboratory and class room study of pathology of the pelvic organs.

### Required Courses—Fourth Year

3. Practise.—Lectures, recitations, lantern slide demonstrations, exhibition of fresh and preserved pathological tissue and illustrations by means of charts and models. 2. I. Professor BARRETT, Assistant Professor FISCHMANN, Dr. STONE

7. Clinic.—Cook County Hospital. One two-hour period. I. Professor BARRETT

15-16. Clinics.—Dispensary. Students in small groups have opportunity to study cases in detail. Students are required to make examinations, study cases, and write reports. In as far as the students' time permits the dispensary cases will be followed through the operative course. In sections. Three two-hour periods (*three weeks*). II.

Assistant Professor LANG, Assistant Professor FISCHMANN, Dr. SCHOENBERG, Dr. STONE, Dr. JUHNKE, Dr. LICHNER, Dr. HOFFMAN

### Optional Course—Fourth Year

- 1-X. Course on Pelvic Histology and Microscopic Pathology. Dr. STONE

## OPHTHALMOLOGY

EDWARD VALE LAPHAM BROWN, M.D., *Professor of Clinical Ophthalmology and Head of the Department*

ANDY M CARR, M.D., *Instructor*

L A COPPS, M.D., *Instructor*

A BEULAH CUSHMAN, M.D., *Instructor*

MARGARET AMERTON HEATH, *Refractionist*

## Required Course—Fourth Year

**3-4. Clinic and Practise.**—Dispensary, clinic, and laboratory course.

In the clinical work emphasis is placed on standard methods of diagnosis. This includes 16 to 20 hours on the normal and pathological anatomy of the eye, 8 to 12 hours practise in the use of the ophthalmoscope perimeter, retinoscope, tonometer, and test charts. The balance of the 48 required and 16 optional hours are spent in the study of cases in the College Dispensary, Cook County Hospital, and Illinois Charitable Eye and Ear Infirmary. 3. *I*, or *II*.  
Professor BROWN and staff

## PATHOLOGY AND BACTERIOLOGY

DAVID JOHN DAVIS, M.D., Ph.D., *Professor of Pathology and Bacteriology and Head of the Department*

JOSIAH JOHN MOORE, M.S., M.D., *Assistant Professor in Pathology and Bacteriology*

THOMAS HARRIS BOUGHTON, M.S., M.D., *Associate in Pathology*

HORRY MATTHEW JONES, Ph.D., *Instructor in Pathology and Bacteriology*

NELLIE PARKINSON, *Technician*

ROSALIE PICKOFF, *Technician*

## Required Course—Second Year

**11. General Bacteriology and Protozoology.**—Pathogenic bacteria and protozoa. Immunity. Lectures; demonstrations; 3. *I*, laboratory; 2 three-hour periods. *I*.

Professor DAVIS, Assistant Professor MOORE, and assistants

## Required Course—Second Year

**17a-18. General Pathology and Pathological Histology.**—General pathology; gross and microscope study of fresh and preserved pathological material. Lectures; recitations, demonstrations; 4. *I*, laboratory, 4 two-hour periods; *I*.

Dr. BOUGHTON and assistants

## Required Course—Second Year

**22. Clinical Pathology.**—Microscopic, bacteriologic, and chemical examination of blood, urine, sputum, faeces, stomach contents, exudates, etc. 8. *II* (eight weeks).

Assistant Professor MOORE, and assistants

## Required Courses—Third Year

**26. Special Pathology and Autopsies.**—Gross and microscopic examination of organs, autopsies, post-mortem bacteriology and experimental pathology. Three two-hour periods. *II*.

Professor DAVIS, Assistant Professor MOORE, and assistants

## Optional Courses

50. Advanced Work and Research in Bacteriology. Limited to properly qualified students. Professor DAVIS

51. Advanced Work in Special Diagnostic Laboratory Methods.—Limited to a few qualified students. Assistant Professor MOORE

55. Diagnosis of Tumors.—Open to students who have had courses in general and special pathology. I. Dr. BOUGHTON

## Courses for Graduates

101. Advanced Pathogenesis.—Etiology and pathogenesis of certain diseases; lower animals in the transmission of human diseases. One unit. Professor DAVIS

105. Individual Research.—One or two units. Professor DAVIS

## PHARMACOLOGY, MATERIA MEDICA, AND THERAPEUTICS

HUGH ALISTER MCGUIGAN, Ph.D., M.D., *Professor and Head of the Department*

ROBERT WOOD KEETON, M.S., M.D., *Associate in Pharmacology and Therapeutics*

EMRY G HYATT, B.S., *Assistant in Pharmacology*

WALTER JOHN RICHARD HEINEKAMP, B.S., *Assistant in Pharmacology*

FREDERICK AUGUST RETTIG, B.S., *Student Assistant*

HARRY JOSEPH SCHLECK, *Technician*

## Required Courses—Second Year

8. Materia Medica and Pharmacy.—Prescription writing. Lectures, recitations; 3; I. Laboratory and demonstrations; 1 two-hour period; I.

Professor MCGUIGAN and assistants

10. Pharmacology and Materia Medica.—Pharmacodynamics; chemistry of drugs. Lectures; recitations; 3; II. Laboratory; 2 three-hour periods; II.

Professor MCGUIGAN, DR. KEETON, and assistants

## Required Course—Third Year

20. General Therapeutics.—2. I. Professor MCGUIGAN and Dr. KEETON

## Optional Course

Research.—The laboratory is open at all times for those qualified to engage in research work. Professor MCGUIGAN and Dr. KEETON

## PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

GEORGE PETER DREYER, Ph.D., *Professor and Head of the Department*

WILLIAM HENRY WELKER, A.C., Ph.D., *Associate Professor of Physiological Chemistry*

J M D OLMSTED, M.D., *Associate in Physiology*

PAUL GERHARD ALBRECHT, Ph.D., *Associate in Physiological Chemistry*

GROVER TRACY, *Instructor in Physiological Chemistry*

OSWIN RAY CLUTTER, M.S., *Instructor in Physiological Chemistry*

JAMES TOBIAS GROOT, *Assistant in Physiology*

HUBBARD PRATHER SAUNDERS, M.D., *Assistant in Physiology*

CONRAD GEORGE APPELLE, M.D., *Assistant in Physiology*

WARREN EARNEST TUPPER, B.S., *Assistant in Physiology*

JESSE LOUIS BOLLMAN, M.S., *Assistant in Physiological Chemistry*

\_\_\_\_\_, *Mechanician in Physiology*

ARTHUR ALBERT LUCAS, *Technician in Physiology*

DOMINIC ANDREW PALMISANO, *Technician in Chemistry*

GEORGE FRANCIS McNAMARA, *Assistant Technician in Chemistry*

### General Statement

The course in physiology is articulated in the curriculum to secure the maximal degree of correlation, and duly emphasizes the laboratory work. The standard equipment as ordinarily provided for the fundamental experiments of the science, is supplemented by special apparatus for the study of clinical problems relating to circulation, respiration, vision, and the nervous system.

The laboratory exercises are selected not only to illustrate and to vitalize the subject-matter of the didactic course, but also to supply valuable technical training and to develop interest in the methods and problems of original investigation. Facilities and equipment are available for those who desire to take advanced work or engage in research.

For the work in chemistry, two laboratories are equipped for routine instruction. In connection with them is a preparation room and a research stock room. A special laboratory is equipped for original work in physiological chemistry. The division library contains reference works for the use of advanced students and investigators, while the main library contains complete files of the more important journals in biochemistry.

### Required Course—First Year

**20. Physiology.**—Blood and lymph, muscle and nerve, circulation, and respiration. Lectures and recitations, 2; demonstration and laboratory, 2 three-hour periods.

Professor DREYER

**21. Organic Chemistry.**—Biological chemistry; fats, proteins, and carbohydrates. Lectures; demonstrations; conferences; 2: laboratory, 2 three-hour periods. *I.*

Dr. ALBRECHT, Mr. BOLLMAN, and assistants

**24. Physiological Chemistry and Toxicology.**—Lectures; demonstrations; conferences; 2: laboratory, 2 three-hour periods. *II.*

Associate Professor WELKER, Dr. ALBRECHT, Mr. BOLLMAN, and assistants

*Prerequisite:* Course 21 or its equivalent.

### Required Course—Second Year

**25. Physiology.**—Digestion; secretion; metabolism; the special senses; the central nervous system. Lectures; recitations; demonstrations; 4: laboratory; 1 four-hour period. *I.*

Professor DREYER and assistants

### Optional Courses

**51-X. Advanced Laboratory Work.**—Physiological demonstration and research; graphic methods.

**53-X. Quantitative Urinary Analysis.**—Lecture, one hour a week; laboratory, six hours a week. *I.*

Associate Professor WELKER, Mr. TRACY

**54-X. Sanitary Chemistry.**—Water and sewage analysis; purification. Lecture, one hour a week; laboratory, six hours a week. *II.*

Associate Professor WELKER

**59-X. Food Analysis.**—Composition, adulteration, preservation. Lecture, one hour a week; laboratory, six hours a week. *I.*

Mr. TRACY

**Research.**—The laboratories are open to persons with the requisite scientific training for the conduct of original investigations under the direction of the members of the staff.

**63-64-X. Seminar.**—The members of the teaching staff and all advanced workers in the department meet weekly to discuss results of recent researches in physiology and biological chemistry.

*Prerequisite for optional courses:* In physiology courses 20 and 23, and in chemistry courses 21 and 24.

**Courses for Graduates**

103. **Advanced Biological Chemistry.**—Biochemical methods of research; biological colloids; enzyme action; metabolism. *One or two units.* Associate Professor WELKER
107. **Biochemical Research.**—*One or two units.* Associate Professor WELKER

**SOCIAL HYGIENE, CRIMINOLOGY, AND MEDICAL  
JURISPRUDENCE**

HERMAN MORRIS ADLER, A.M., M.D., *Professor of Criminology and Head of the Department*  
 ELMER DEWITT BROTHERS, M.S., LL.B., *Lecturer in Medical Jurisprudence*  
 MATTHEW MILLS, LL.B., *Alternate Lecturer in Medical Jurisprudence*

**Required Course—Third Year**

4. **Hygiene and Public Health.**—General etiology, immunity, contagious diseases, epidemiology, and preventive medicine; organization of health departments and the work of divisions of the same; vital statistics, inspection of schools and factories; food supply and control; public welfare. Lectures and practical work.  $3\frac{1}{2}$  hours per week. *I.*

Professor ADLER

6. **Medical Jurisprudence.**—The principles of law governing individual and professional rights and obligations; responsibilities arising from the relation of physician and patient; confidential character and inviolability of such relation; medical laws of the various states. Lectures, 1. *I.*

Mr. BROTHERS

**SURGERY**

CHARLES DAVISON, A.M., M.D., *Professor and Head of the Department*

**DIVISION OF GENERAL SURGERY**

CHARLES DAVISON, A.M., M.D., *Professor of Surgery and Clinical Surgery*  
 ALBERT JOHN OCHSNER, M.D., LL.D., *Professor of Surgery and Clinical Surgery*  
 WILLIAM MCINTYRE HARSHA, M.D., *Professor of Surgery and Clinical Surgery*  
 ALBERT EDWARD HALSTEAD, M.D., *Professor of Surgery and Clinical Surgery*  
 CHARLES EDWARD HUMISTON, M.D., *Professor of Clinical Surgery*  
 NELSON MORTIMER PERCY, M.D., *Associate Professor of Clinical Surgery*  
 GEORGE FARNSWORTH THOMPSON, M.D., *Associate Professor of Clinical Surgery*  
 FREDERICK GEORGE DYAS, M.D., *Assistant Professor of Clinical Surgery*  
 FRANK DONALD MOORE, M.D., *Assistant Professor of Surgery and Clinical Surgery*  
 JOHN ROSS HARGER, M.D., *Assistant Professor of Surgery*  
 KARL ALBERT MEYER, M.D., *Assistant Professor of Surgery and Clinical Surgery*  
 CASSIUS CLAY ROGERS, A.M., M.D., *Assistant Professor of Surgery*  
 CHARLES HERBERT PHIFER, M.D., *Assistant Professor of Surgery*  
 WALTER HOWARD MEENTS, M.D., *Assistant Professor of Surgery*  
 ARRIE BAMBERGER, M.D., *Associate in Surgery*  
 RAYMOND MCNEALY, M.D., *Associate in Surgery*  
 OSCAR EUGENE NADEAU, M.D., *Associate in Surgery*  
 HENRY LESTER BAKER, M.D., *Associate in Surgery*  
 GEORGE WASHINGTON POST, A.M., M.D., *Associate in Surgery*  
 GEORGE LUTHER DAVENPORT, M.D., *Instructor in Surgery*  
 MAX MEYEROVITZ, M.D., *Instructor in Surgery*  
 EDWIN CHRISTIAN SCHMITT, A.M., M.D., *Instructor in Surgery*  
 WILLIAM FRANKLIN MONCREIFF, M.S., M.D., *Instructor in Surgery*  
 LYNDON HARRIS, M.D., *Assistant in Surgery*  
 CLARA GRACE GOTTSCHALK, M.D., *Assistant in Surgery*

## Required Courses—Third Year

3-4. **Practise.**—Surgery and surgical pathology. Conferences, recitations. In sections; 2. *II.* Assistant Professor PHIFER, Dr. NADEAU, Dr. POST, Dr. SCHMITT

7-8. **Clinic.**—Dispensary. Diagnosis, bandaging, surgical dressings and appliances. Three two-hour periods (*three weeks*). *II.*

Assistant Professor HARGER, Dr. BAMBERGER, Dr. POST, Dr. HARRIS

9. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.* Professor HUMISTON

10. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Associate Professor THOMPSON

11. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Assistant Professor DYAS

12. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Assistant Professor MEYER

19. **Anesthetics.**—Practical demonstrations to individual students in the administration of anesthetics at Cook County Hospital. Conferences; recitations. To small sections; 1 (*four weeks*). Assistant Professor MEYER, Dr. BAKER

## Optional Courses—Third Year

1-X. **Anesthetics, Surgical Dressings and Bandaging.**—Individual instruction and demonstration of the application of surgical dressings. 1. *I.* Dr. BAKER

2-X. **Surgical Diagnosis.**—1. *I.*

Dr. MCNEALY

3-X. **Principles of Surgery.**—A review course. 1. *I.*

Assistant Professor MEYER, Dr. MONCREIFF

4-X. **Surgical Diseases of the Kidneys.**—1. *I.*

Dr. CULVER

5-X. **Operative Surgery of the Abdomen on Animals.**—1. *I.*

Dr. GRAHAM, Dr. MUSTELL

## Required Courses—Fourth Year

23-24. **Practise.**—Regional surgery. Conferences, recitations. In sections. 1. *I.*

Assistant Professor MOORE, Assistant Professor MEENTS

29. **Clinic.**—University Hospital. 1 two-hour period. *I.*

Professor DAVISON, Dr. MEYEROVITZ

31. **Clinic.**—St. Mary's Hospital. 1 two-hour period. *I.*

Professor OCHSNER, Associate Professor PERCY

32. **Clinic.**—Augustana Hospital. 1 two-hour period. *I.*

Professor OCHSNER, Associate Professor PERCY

33. **Clinic.**—St. Luke's Hospital. 1 two-hour period. *I.*

Professor HALSTEAD, Professor HARSHA

34. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Associate Professor THOMPSON

35. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Assistant Professor DYAS

36. **Clinic.**—Cook County Hospital. 1 two-hour period. *I.*

Assistant Professor MEYER

37-a. **Clinic.**—Cook County Hospital. Bedside conference in surgical diagnosis. 1. *I.*

Professor DAVISON, Assistant Professor MEYER

37b. **Clinic.**—Cook County Hospital. *Individual Bedside Instruction in Surgical Diagnosis.* Record writing, symptoms, physical examination, roentgenogram interpreta-

tion, laboratory examination of materials from the patient secured in the ward, operating room, or morgue. One two-hour period. *I.*

Professor DAVISON, Professor HUMISTON, Associate Professor THOMPSON, Assistant Professor DYAS, Assistant Professor MEYER, Dr. GOTTSCHALK

41. Surgical Pathology.—Laboratory. In sections. One two-hour period (*eight weeks*).  
Dr. NADEAU

43-44. Surgical Seminar.—Work done in cooperation with the departments of medicine and obstetrics. For this work the student receives 48 hours credit, 16 in each department, although the work is done in one department only. The purpose is to give the student a working knowledge of the medical literature, and to acquaint him with the methods of looking up the work which has been done on any special subject. During the first semester, the groups will meet only informally, and abstracts will be prepared and submitted for criticism. During the second semester, each group will be assigned one hour in which to present its work before the entire class.  
Assistant Professor HARGER

### Optional Courses—Fourth Year

#### Advanced Work in Special Subjects

- 6-X. Surgery of the Abdomen.—Lectures, conferences, recitations. 1. *I.*  
Assistant Professor MEENTS
- 7-X. Surgical Tuberculosis.—Lectures, conferences, recitations. 1. *I.*  
Assistant Professor THOMAS
- 8-X. Regional Surgery.—A review course. 1. *I.*  
Assistant Professor MEYER, Dr. MONCREIFF
- 9-X. Surgery of the Brain and Spinal Cord.—Lectures, conferences, recitations. 1. *I.*  
Assistant Professor ROGERS
- 10-X. Surgery of the Thorax.—Lectures, conferences, recitations. 1. *I.*  
Associate Professor THOMPSON
- 11-X. Special Fractures.—Lectures, recitations, conferences. 1. *I.*  
Assistant Professor LOUNSBURY

### DIVISION OF ORTHOPEDIC SURGERY

CHARLES MEYER JACOBS, M.D., *Associate Professor*  
 HENRY BASCOM THOMAS, B.S., M.D., *Assistant Professor*  
 JOHN PERLEY SPRAGUE, A.B., M.D., *Associate*  
 ROBERT JAY COOK, A.B., M.D., *Instructor*  
 MARCUS HATFIELD HOBART, A.B., M.D., *Instructor*  
 THOMAS JOHN SULLIVAN, JR., M.D., *Instructor*

### Required Courses—Third Year

- 3. Practise.—Conferences, recitations. In sections. 1. *I.*  
Assistant Professor THOMAS, Dr. SPRAGUE, Dr. HOBART, Dr. SULLIVAN
- 7. Clinic.—Cook County Hospital. 1. *I.* Assistant Professor JACOBS
- 8. Clinic.—Cook County Hospital. 1. *I.* Assistant Professor THOMAS
- 15-16. Clinic.—Dispensary. In sections; three two-hour periods (*three weeks*). *II.*  
Assistant Professor THOMAS, Dr. COOK, Dr. HOBART, Dr. SULLIVAN



# DIVISION OF GENITO-URINARY SURGERY

CHARLES MORGAN MCKENNA, B.S., M.D., *Assistant Professor*

WILLIAM NICHOLAS SENN, M.D., *Associate*

HARRY CULVER, M.S., *Associate*

HARRY JEROME SMEJKAL, M.D., *Instructor*

MAURICE SEYMOUR MAZEL, B.S., M.D., *Instructor*

HARTLEY FARHAM MARS, Ph.C., M.D., *Instructor*

## Required Courses—Third Year

3. **Practise.**—Conferences, recitations. In sections. 1. *I.*

Assistant Professor MCKENNA, Dr. CULVER, Dr. MAZEL, Dr. MARS

7-8. **Clinic.**—Dispensary. In sections. Three two-hour periods (*three weeks*). *II.*

Assistant Professor MCKENNA, Dr. SMEJKAL, Dr. MAZEL, Dr. MARS

## Required Courses—Fourth Year

11. **Clinic.**—Cook County Hospital. Individual instruction in the diagnosis of genito-urinary diseases, including cystoscopy, catheterization of the ureters, interpretation of roentgenograms and of chemical and microscopical urinalyses. In sections; two two-hour periods (*three weeks*).  
Dr. CULVER

14. **Clinic.**—St. Joseph's Hospital. In sections; one two-hour period. *II* (*four weeks*).  
Assistant Professor MCKENNA

# DIVISION OF OPERATIVE SURGERY

BENJAMIN FRANKLIN LOUNSBURY, B.L., M.D., *Assistant Professor of Operative Surgery*

ARCHIE JAMES GRAHAM, B.S., M.D., *Instructor*

JAMES HUBERT SKILES, A.B., M.D., *Assistant*

ARTHUR R METZ, A.B., M.D., *Assistant*

CHARLES EDWARD WATTS, B.S., M.D., *Assistant*

ROBERT ROWLAINE MUSTELL, A.B., M.D., *Assistant*

## Required Course—Second Year

3. **Operative Surgery.**—Regional surgical anatomy. Individual operations on the cadaver and on animals. In small sections; two two-hour periods. *I.*

Assistant Professor LOUNSBURY, Dr. SKILES, Dr. METZ, Dr. WATTS

# LARYNGOLOGY, RHINOLOGY, AND OTOTOLOGY

NORVAL HARVEY PIERCE, M.D., *Professor and Head of the Department*

JOSEPH C BECK, M.D., *Associate Professor*

EDWARD FRANCIS GARRAGHAN, A.M., M.D., *Associate*

WALTER HENRY THEOBALD, M.D., *Associate*

JACQUES HOLINGER, M.D., *Associate*

WILLIAM CLYDE COMEE, M.D., *Instructor*

CHARLES FRANCIS YERGER, M.D., *Instructor*

HIRAM JASON SMITH, M.D., *Instructor*

## Departmental Statement

The fundamentals of diseases of the nose, throat, and ear based on anatomy, physiology, and pathology of these organs, and the clinical manifestations of their more common diseases furnish the basis of the work in this department. Stress will be laid on the relation-

ship of these special organs to the body as a whole in health and disease. Teaching will be facilitated by laboratory studies of Bezold's and large models of the ear, macerated specimens of the nose, throat, and ear; by lantern slides and stereoptic demonstrations, as well as by actual examination of individuals in the out-patient department and in the hospital.

### Required Courses—Third Year

3. Practise.—The surgical anatomy, physiology, and pathology of the ear. 1. *I.*

Professor PIERCE and Associate Professor BECK

7. Clinic.—Illinois Eye and Ear Infirmary. Diseases of the Nose, Ear, and Throat. In sections; 2. *II.*

Professor PIERCE

17. Clinical Conference.—Cook County Hospital. Training in the use of instruments for the examination of the ear, nose and throat. In sections; 1. *II. (four weeks).*

Dr. HOLINGER

19-20. Clinic.—College Dispensary. In sections; 3 (*three weeks*). *II.*

Dr. GARRAGHAN, Dr. THEOBALD, Dr. YERGER, Dr. COMEE, Dr. SMITH

### Optional Course

51. Laryngology and Rhinology. Clinical. Cook County Hospital. One hour a week. 1. *I.*

Associate Professor BECK

### SUMMARY OF HOURS

#### First Year

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
ANATOMY:					
Gross.....	32	112	32	112	288
Microscopic.....	32	160	32	64	288
CHEMISTRY:					
Organic.....	32	96	....	....	128
Physiological.....	....	....	32	96	128
PHYSIOLOGY.....	....	....	48	96	144
	96	368	144	368	976

#### Second Year

Subjects	First Semester		Second Semester		Total
	Didactic	Laboratory	Didactic	Laboratory	
ANATOMY:					
Topographical.....	32	96	....	....	128
Bacteriology.....	48	96	....	....	144
Clinical Pathology.....	....	....	....	64	64
Pharmacology.....	48	64	48	64	224
Prescription Writing and Pharmacy.....	....	....	....	....	....
Pathology.....	32	96	16	48	192
Physical Diagnosis.....	....	....	16	32	48
Physiology.....	32	96	....	....	128
Surgery (Operative).....	....	....	....	32	32
	192	442	112	240	960

#### Third Year

Subjects	First Semester			Second Semester			Total
	Didactic	Clinical and Laboratory	Dispensary	Didactic	Clinical and Laboratory	Dispensary	
Autopsies.....	....	....	....	32	....	....	32
Hygiene.....	....	....	....	32	24	....	56
Laryngology and Rhinology.....	16	16	9	....	....	9	50
Internal Medicine.....	64	40	18	64	40	18	244
Medical Jurisprudence.....	....	....	....	16	....	....	16
Pathology.....	....	....	....	64	....	....	64
Pediatrics.....	16	....	....	16	16	....	48
Pharmacology and Therapeutics.....	32	....	....	....	....	....	32
Obstetrics.....	32	....	....	32	20	....	84
Otology.....	....	....	....	6	4	....	10
General Surgery.....	32	32	18	32	36	18	168
Orthopedic Surgery.....	16	16	18	....	16	18	84
Genito-Urinary Surgery.....	16	....	18	....	....	18	52
	224	104	81	198	252	81	940

## Fourth Year

Subjects	First Semester			Second Semester			Total
	Didactic	Clinical and Lab-oratory	Dis-pensary	Didactic	Clinical and Lab-oratory	Dis-pensary	
Dermatology.....	32	16	9	....	....	9	66
Genito-Urinary Surgery.....	....	4	....	....	16	....	20
Gynecology.....	32	32	9	....	20	9	102
Medicine.....	96	50	....	48	66	....	260
Neurology.....	16	16	18	16	16	18	100
Obstetrics.....	48	30	....	....	34	....	112
Ophthalmology.....	12	16	18	....	....	18	64
Pediatrics.....	....	32	18	....	12	18	80
Psychiatry.....	....	....	....	16	8	....	24
Röntgenology.....	....	....	....	....	4	....	4
General Surgery.....	32	72	....	32	88	....	224
Surgical Pathology.....	....	....	....	....	16	....	16
	268	268	72	112	280	72	1072

First year.....	976
Second year.....	960
Third year.....	940
Fourth year.....	1072
Total.....	3948

## First Year

Subjects	Summer Quadri- mester June 3—Sept. 28 1918	First Quarter Oct. 1—Dec. 21, 1918 Extended to Feb. 1, 1919	Feb. 1—March 1
ANATOMY:			
Gross.....	96	174	....
Microscopic.....	256	....	....
CHEMISTRY:			
Organic.....	....	180	96
Physiological.....	....	....	....
Bacteriology.....	144	....	....
OPTIONAL SUBJECTS:			
Required Hours.....	....	36	....
Total.....	496	390	96

## Second Year

Subjects	Summer Quadrimester June 3—Sept. 28, 1918	First Quarter, Oct. 1—Dec. 21, 1918. Extended to Feb. 1, 1919		Feb. 1—April 1, 1919 Students who had finished the work of the summer quadrimester	Feb. 1—June 11, 1919 Students who entered Oct. 1, 1918
		Students who had finished the work of the summer quadrimester	Students who entered Oct. 1, 1918		
ANATOMY:					
Topographical.....	128	....	....	....	128
Bacteriology.....	144	....	....	....	144
Clinical Pathology.....	....	96	....	....	64
Pharmacology.....	112	....	112	112	112
Pathology.....	....	136	136	88	88
Physical Diagnosis.....	48	....	....	....	48
Physiology.....	....	162	162	....	....
Surgery (Operative).....	32	....	....	....	32
OPTIONAL SUBJECTS:					
Required Hours.....	....	38	38	....	....
Total.....	464	432	418	200	616

## Third Year

Subjects	Summer Quadrimester June 3—Sept. 28, 1918	First Quarter, Oct. 1—Dec. 21, 1918. Extended to Feb. 1, 1919		Feb. 1—June 11, 1919 Students who entered Oct. 1, 1918
		Students who had finished the work of the summer quadrimester	Students who entered Oct. 1, 1918	
Hygiene.....	.....	.....	.....	24
Laryngology, Rhinology and Otolaryngology.....	50	.....	48	.....
Internal Medicine.....	160	156	112	132
Medical Jurisprudence.....	.....	.....	.....	16
Pathology, including Autopsies.....	96	.....	90	48
Pediatrics.....	32	.....	.....	.....
Pharmacology and Therapeutics.....	32	.....	.....	32
Obstetrics.....	.....	66	66	12
General Surgery.....	82	96	82	86
Orthopedic Surgery.....	32	66	.....	68
Genito-Urinary Surgery.....	16	.....	.....	16
OPTIONAL SUBJECTS:				
Required hours.....	.....	32	32	.....
Total.....	500	416	430	434

## Fourth Year

Subjects	Summer Quadrimester June 3—Sept. 28, 1918	Second Quadrimester Oct. 1, 1918— Feb. 1, 1919	
Dermatology.....	50	16	66
Genito-Urinary Surgery.....	20	.....	20
Gynecology.....	.....	82	82
Hygiene.....	24	.....	24
Medicine.....	144	112	256
Neurology and Psychiatry.....	.....	124	124
Obstetrics.....	94	.....	110
Ophthalmology.....	48	56	48
Pediatrics.....	62	.....	62
Roentgenology.....	4	.....	4
General Surgery.....	120	120	240
Surgical Pathology.....	16	.....	16
Total.....	582	470	1052

## FOURTH YEAR

Subjects	First Semester Feb. 3, 1919, to June 7, 1919 Clinical and Lab- oratory			Second Semester June 9, 1919, Extended to Feb. 1, 1920 Clinical and Lab- oratory			Total
	Didactic	Dis- pensary	Dis- pensary	Didactic	Dis- pensary	Dis- pensary	
Dermatology.....	.....	.....	9	32	16	9	66
Genito-Urinary Surgery.....	.....	4	18	.....	16	18	56
Gynecology.....	32	32	9	.....	20	9	102
Hygiene.....	.....	.....	.....	.....	24	.....	24
Medicine.....	96	50	.....	48	66	.....	260
Neurology.....	16	16	18	16	16	18	100
Obstetrics.....	48	30	.....	.....	34	.....	112
Ophthalmology.....	12	16	18	.....	.....	18	64
Pediatrics.....	.....	32	18	.....	12	18	80
Psychiatry.....	.....	.....	.....	16	8	.....	24
Roentgenology.....	.....	.....	.....	.....	4	.....	4
General Surgery.....	32	72	.....	32	88	.....	224
Surgical Pathology.....	.....	.....	.....	.....	16	.....	16
Advanced Work.....	.....	.....	.....	.....	500	.....	500
Total.....	236	252	90	144	820	90	1632

# THE COLLEGE OF DENTISTRY

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(For the *faculty* of the College of Dentistry, see page 39; for a description of the *building*, see page 59; for *fees*, see page 112; for scholarship, see page 103.)

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## LOCATION

The College of Dentistry of the University of Illinois is located at Harrison and Honore streets, directly opposite the Cook County Hospital, in Chicago. Adjoining it on the north is the University of Illinois College of Medicine, and on the west the West Side Hospital.

## INFIRMARY

The Infirmary occupies the entire top floor of the main building. It is supplied with modern accessories, and there are windows on three sides, as well as skylights overhead, so that all work may be done by daylight. All sterilization and preparation for therapeutic and root canal work is supervised by a registered nurse.

## LIBRARY

The general library of the University of Illinois in Chicago is in the Medical Building, which adjoins the College of Dentistry. In this library there are over 20,000 volumes, including a comprehensive collection of works on dental and allied subjects. All of the standard dental journals are kept on file, and there is a representative collection of works in literature, standard and modern, for the exclusive use of English classes in the College of Dentistry. The library is open from 9 a. m. to 5 p. m., daily.

## ADMISSION

See page 77.

## CURRICULUMS

Four-year curriculum. Registration for the present year closed October 11, 1919. The degree of Doctor of Dental Surgery (D.D.S.) is conferred on the successful completion of the curriculum.

Six year curriculum—two years in a recognized college of Liberal Arts and Sciences followed by four years in the College of Dentistry. The work of the first two years must include certain prescribed subjects. On the completion of the first two years in the College of Dentistry, these students receive the degree of Bachelor of Science; and on the completion of the four years in the College of Dentistry they receive the degree of Doctor of Dental Surgery. The two years of work in Arts and Sciences may be taken in the College of Liberal Arts and Sciences at Urbana.

## NEW REQUIREMENTS BEGINNING JANUARY 1, 1921

After January 1, 1921, candidates will be required to present in addition one year of work in an approved college of liberal arts and sciences, comprising not less than 30 semester hours, and including prescribed subjects as follows:

Chemistry.....	6	semester hours
Biology.....	6	" "
English.....	6	" "
Electives.....	12	" "
Total.....	30	semester hours

It is suggested that the 12 semester hours of electives be chosen largely from the following subjects: a modern foreign language, mathematics, history, technical drawing, shop practise.

No conditions can be permitted in either high-school credits or collegiate credits.

### **ADMISSION TO ADVANCED STANDING**

Students who can comply with the requirements for admission to the University of Illinois, and who have studied dentistry in any college accredited to the University of Illinois for not less than one year, may be admitted to advanced standing. Such students, however, will be required to comply with all the conditions of the curriculum of the College of Dentistry.

Graduates of colleges of medicine accredited to the University of Illinois may be admitted to the College of Dentistry and given credit for one year in time and for all satisfactorily completed courses which are required by the College of Dentistry.

Students holding credits other than those listed above should communicate with the Dean for further information.

### **LENGTH OF CURRICULUM**

The regular session of 1919-20 began on October 1, 1919, at 8:30 a. m., and will end June 11, 1920. The curriculum covers four years of college work.

Students may be admitted to the regular curriculum only during the first ten days of the first semester. Students who desire to pursue special studies may be received at any time.

### **REQUIREMENTS FOR GRADUATION**

The degree of Doctor of Dental Surgery will be conferred on students who have completed the curriculum, attended the required time, and passed satisfactorily the final examinations. To be eligible to the degree, the student must be twenty-one years of age, must possess a good moral character, and must have paid all fees.

The monthly report of attendance, and the standing of students in recitations, laboratory work, and infirmary practise, both operative and prosthetic, are considered in making up the rating of final examinations.

### **GRADUATION WITH THESIS**

Students may become candidates for thesis honors through meritorious work. "Graduation with Thesis" is awarded on the presentation of a satisfactory scientific essay.

### **HONORARY RESEARCH ASSISTANTS**

Students may, during the last year of their course, be permitted to pursue advanced work in a department, provided, first, that they have shown special aptitude along this line; and, second, that their previous work has been of a sufficiently high grade. If at the end of the last year's work the student's application and attainment are regarded as of a sufficiently high character, an honorary research assistantship may be awarded.

### **LICENSE FOR PRACTISE IN ENGLAND**

On the recommendation of the Board of Examiners in Dental Surgery, the Council of the Royal College of Surgeons, in London, has added the College of Dentistry of the University of Illinois to the list of dental schools recognized by the College. This recognition implies that the Royal College of Surgeons will exempt graduates in dental surgery of the University of Illinois from the Preliminary Science Examination for the License in Dental Surgery, and will accept such parts of the curriculum for the License as are completed in the College of Dentistry of the University of Illinois toward the curriculum of studies required for a license.

# GENERAL DESCRIPTION OF COURSES

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## RHETORIC

FRANK HURBURT O'HARA, Ph.B., *Instructor*

### Required Course—First Year

**1-2. Rhetoric and Themes.**—Short themes; preparation of papers on scientific subjects; public speaking; debate; general reading. 3, *I, II*. Mr. O'HARA

**Advanced Courses.**—Composition and rhetoric; individual consultations and occasional meetings with advanced classes, the written work in other departments forming the chief basis of discussion. Mr. O'HARA

## TECHNICAL DRAWING

L F A HEIN, *Instructor*

### Required Course—First Year

**1. Technical Drawing.**—Theoretical and practical graphics, the reading and making of working plans. Projections, sketching, lettering, conventions, renderings, and translations, 2 two-and-a-half-hour periods. *I*. Mr. HEIN

## ANATOMY, HISTOLOGY, EMBRYOLOGY, ZOOLOGY

ALBERT CHAUNCEY EYCLESHYMER, B.S., M.D., Ph.D., *Professor and Head of the Department*

FREDERICK BOGUE NOYES, B.S., D.D.S., *Professor of Histology*

NEWTON GEORGE THOMAS, M.A., D.D.S., *Professor of Histology*

ROY LEE MOODIE, A.B., Ph.D., *Assistant Professor of Anatomy*

ARTHUR REUBEN COOPER, A.B., A.M., Ph.D., *Associate in Anatomy*

OSCAR EUGENE NADEAU, A.B., M.D., *Instructor in Anatomy*

LOUIS N BOELIO, *Assistant in Anatomy*

NORA ELLEN FREDERICK, A.B., *Instructor in Anatomy*

The laboratories for gross anatomy comprise two dissecting rooms and a number of smaller rooms for embalming, storing, and prospecting. A plastic studio is available for anatomical reconstruction work and the use of models for teaching purposes. The laboratories for histology and embryology, together with the offices and research laboratories, are located in the Medical Building.

### Required Courses—First Year

**3. General Zoology.**—Animal biology, structure, function, interrelations; origin and development of animal life; zoological theory. Lectures and quizzes. 3. *I*.

Dr. COOPER and Miss FREDERICK

**4. Vertebrate Zoology and Comparative Anatomy.**—Classification of the chordata; anatomy of systems of organs considered in respect to their function, ontogeny, and evolution in the vertebrate series; dissection of types of the chordata, with special emphasis on mammalian splanchnology and including one of the extremities of the human body. Lectures and quizzes, 3, *II*; laboratory, 2 three-hour periods, *I, II*.

Dr. COOPER and Miss FREDERICK

**8. General Histology.**—Cell structure and function; relation of cells and intercellular substances and tissues; elementary tissues; organs of circulatory systems; alimentary tract and glands; urinary system; respiratory system; skin, nails, and hair. Lecture and quiz, 2; laboratory, 2 two-and-a-half-hour periods. *II.*

Professor THOMAS and Assistants

#### Required Courses—Second Year

**11. Regional and Systematic Anatomy.**—Complete dissection of the trunk superior extremity, head and neck; topographical relations by means of serial sections. Lectures, demonstrations, recitations, and laboratory, 2 four-hour periods. *I, II.*

Dr. NADEAU and Mr. BOELIO

**15. Dental Histology and Embryology.**—The tissues of the teeth, the supporting tissues, and tissues of the oral cavity; the enamel, operative procedures, and preparation of cavity walls; embryology of the teeth, mouth, and jaws. Lecture or quiz, 1; laboratory, 2 two-and-a-half-hour periods. *I.*

Professor NOYES, Professor THOMAS

#### CHEMISTRY AND METALLURGY

WILLIAM HENRY WELKER, A.C., Ph.D., *Associate Professor of Physiological Chemistry*

PAUL GERHARD ALBRECHT, Ph.D., *Associate in Physiological Chemistry*

GROVER TRACY, A.B., *Instructor in Physiological Chemistry*

OSWIN RAY CLUTTER, Ph.B., M.S., *Instructor in Physiological Chemistry*

JESSE LOUIS BOLLMAN, A.B., M.D., *Assistant in Physiological Chemistry*

DOMINIC ANDREW PALMISANO, *Technician in Chemistry*

GEORGE FRANCIS McNAMARA, *Assistant Technician in Chemistry*

The instruction in chemistry is given in the laboratories in the Medical Building.

#### Required Courses—First Year

**3. General Inorganic Chemistry.**—Metals and non-metals. Lectures and recitations, 4; laboratory, 2 three-hour periods. *I.* Associate Professor WELKER and assistants

**6. Qualitative Analysis.**—The important metals and acids. Lecture or recitation, 1; laboratory, 2 two-and-a-half-hour periods. *II.*

Associate Professor WELKER and assistants

#### Required Courses—Second Year

**9. Organic Chemistry.**—Fats, proteins, and carbohydrates. Lectures, demonstrations, and conferences, 2; laboratory, 2 three-hour periods, *I.*

Dr. ALBRECHT and assistants

**12. Physiological Chemistry.**—Lectures, demonstrations, and conferences, 2; laboratory, 2 two-and-a-half-hour periods. *II.*

Dr. ALBRECHT and assistants

*Prerequisite:* Course No. 9 or its equivalent.

#### Required Course—Third Year

**15. Metallurgy.**—Extraction and refining of metals used in dentistry; physical properties; analysis of ores, alloys, solders, and cements; refining of gold, silver, and tin. Preparation of alloys and solders. Lecture or recitation, 2; laboratory, 1 four-hour period. *I.*

Assistant Professor WELKER and assistants



## Optional Course

**51. Metallurgy.**—An advanced course, open to students who have completed satisfactory courses in inorganic chemistry, qualitative analysis, and metallurgy. Hours to be arranged. Associate Professor WELKER

**Research.**—The laboratories are open to persons with the requisite scientific training for the conduct of original investigation under the direction of a member of the staff.

## PATHOLOGY AND BACTERIOLOGY

DAVID JOHN DAVIS, B.S., M.D., Ph.D., *Professor of Pathology and Bacteriology and Head of the Department*

JOSIAH JOHN MOORE, B.S., M.D., M.S., *Assistant Professor in Pathology and Bacteriology*

THOMAS HARRIS BOUGHTON, M.S., M.D., *Associate in Pathology*

HORRY MATTHEW JONES, B.S., Ph.D., *Instructor in Pathology and Bacteriology*

The laboratories of pathology occupy rooms in the Medical Building. In the main laboratory are several hundred specimens which are used for teaching purposes and demonstration.

The laboratories of bacteriology are located in the Medical Building.

Opportunity is offered to those desiring more advanced work in pathology and bacteriology and to those interested in research.

## Required Course—Second Year

**4. General Bacteriology.**—Sterilization; disinfection; preparation of culture media; morphologic and cultural characteristics of bacteria; isolation, cultivation, and identification of pathogens; disease; immunity; vaccines; problems of hygiene. Animal experiments. Lectures, recitations, and demonstrations, 3; laboratory work, 2 two-and-a-half-hour periods. *II.* Dr. JONES and assistants

## Required Course—Third Year

**7. General Pathology.**—Circulatory disturbances, retrogressive and progressive changes, inflammation, tumors, and the special pathology of the important organs of the body. Autopsies, second half-semester. Lectures, recitations, and demonstrations, 4; laboratory, 2 two-and-a-half-hour periods. *I.*

Professor DAVIS, Dr. BOUGHTON, and assistants

## Optional Course

**55. Advanced Laboratory and Research Work.**—Open to a limited number of qualified students. Hours to be arranged. Dr. BOUGHTON

## PHYSIOLOGY

GEORGE PETER DREYER, A.B., Ph.D., *Professor of Physiology and Physiological Chemistry*

JAMES TOBIAS GROOT, *Assistant*

HUBBARD PRATHER SAUNDERS, A.B., M.D., *Assistant*

ARTHUR ALBERT LUCAS, *Technician*

The work in this department has been adapted to the requirements of higher dental education as regards length of course, emphasis on particular topics, and correlation to other fundamentals. While the dental classes meet independently of the medical classes, the same department administers to both groups of students with the resulting advantage of increased facilities in the way of laboratory equipment and teaching staff.

**Required Course—Third Year**

**3-4. Human Physiology.**—Lectures, recitations, and demonstrations, 4. *I, II.*  
Laboratory work and demonstrations. 1 three-hour period. *I, II.*

**OPERATIVE DENTISTRY**

DONALD MACKAY GALLIE, D.D.S., *Professor and Head of the Department*

LOUIS E BAKE, D.D.S., *Associate Professor*

JOHN C MCGUIRE, D.D.S., *Superintendent of Infirmary*

WILLIAM IRA WILLIAMS, D.D.S., *Assistant Professor*

GEORGE LESTER WEIR, D.D.S., *Instructor*

**Required Course—First Year**

**3. Operative Dentistry; Dental Anatomy and Nomenclature.**—Tooth forms and surfaces; modeling of tooth forms in clay, and free-hand drawing of tooth surfaces. Lecture or recitation, 1; laboratory, 2 three-hour periods. *I.*

Associate Professor BAKE, Assistant Professor WILLIAMS, Dr. WEIR

**Required Course—Second Year**

**11-12. Operative Dentistry.**—Carving of tooth forms in modeling compound and ivory; instrument making and use; dissection of pulp chambers and root canals in natural teeth; cavity preparation in ivory forms. Lecture, 1; laboratory, 2 two-and-a-half-hour periods; *I, II.*

Associate Professor BAKE, Assistant Professor WILLIAMS, Dr. WEIR

**Required Courses—Third Year**

**15-16. Operative Dentistry.**—Cavity nomenclature and preparation; filling materials; inlay technic, both gold and porcelain; correct chair positions; the application of the rubber dam; the use of clamps, wedges, and separator; treating, enlarging, and filling of root canals. Lecture, 1; laboratory, 2 two-and-a-half-hour periods. *I, II.*

Professor GALLIE, Associate Professor BAKE, Assistant Professor WILLIAMS, Dr. WEIR

**18. Infirmary Clinic: Practical Operative Dentistry.**—256 hours,<sup>1</sup> 16 hours a week; *II.*

Professor GALLIE, Associate Professor BAKE, Assistant Professor WILLIAMS, Dr. WEIR

**Required Courses—Fourth Year**

**21-22. Operative Dentistry.**—Review of technical procedures, principles, and practise. Management of patients, special cases, children's teeth. Erosion, atrophy, and abrasion. Office equipment and management. Lecture or recitation, 2. *I, II.* Professor GALLIE

**24-26. Infirmary Clinic: Practical Operative Dentistry.**—1,056 hours,<sup>1</sup> 33 hours a week. *I, II.* Professor GALLIE and assistants

**X-31-32. Infirmary Clinic: Practical Operative Dentistry.**—1,056 hours,<sup>1</sup> 33 hours a week. *I, II.* Professor GALLIE and assistants

**PROSTHETIC DENTISTRY**

GEORGE WALTER DITTMAR, D.D.S., *Professor and Head of the Department*

SOLOMON PERRY STARR, D.D.S., *Associate Professor*

ROSCOE WINTERS UPP, D.D.S., *Instructor*

BURNE OLIN SIPPY, A.B., D.D.S., *Instructor*

<sup>1</sup>These hours are distributed among the various clinical departments.

JOHN S GRIMSON, D.D.S., *Instructor*

WACLAW HOWARD KUBACKI, D.D.S., *Instructor*

LUTHER L BLAINE, *Assistant*

**Required Course—First Year**

**2. Prosthetic Dentistry.**—Terminology; impression materials and impressions; vulcanite and vulcanization; construction of partial and full vulcanite dentures; soldering; band and wire clasp construction. Lecture or quiz, 1; laboratory, 2 four-hour periods. *II.*

Dr. GRIMSON, Dr. UPP

**Required Course—Second Year**

**5-6. Prosthetic Dentistry.**—Swaged and cast dentures; tenso-friction appliances; crown and bridge construction. Lecture and quiz, 2; laboratory, 2 three-and-a-half-hour periods. *I, II.*

Dr. UPP, Dr. SIPPY

**Required Courses—Third Year**

**9-10. Prosthetic Dentistry.**—The human dental mechanism; mastication; Gysi and Hall theories of occlusion and articulation; advanced plate, crown, and bridge construction; porcelain technic, splints and obturators. Lecture and quiz, 1; laboratory, 2 three-hour periods. *I, II.*

Professor DITTMAR, Associate Professor STARR, Dr. UPP, Dr. SIPPY

**14. Infirmary Clinic: Practical Prosthetic Dentistry.**—256 hours,<sup>1</sup> 16 hours a week. *II.*

Professor DITTMAR and assistants

**Required Courses—Fourth Year**

**17-18. Prosthetic Dentistry.**—A review of the fundamentals and their practical application. Lectures, 2. *I, II.*

Professor DITTMAR and assistants

**19. Prosthetic Technic.**—Full upper and lower denture articulated and ground to occlusion, 1. *I or II.*

Professor DITTMAR and assistants

**21-22. Infirmary Clinic: Practical Prosthetic Dentistry.**—1,056 hours,<sup>1</sup> 33 hours a week. *I, II.*

Professor DITTMAR and assistants

**MATERIA MEDICA AND THERAPEUTICS**

EDGAR DAVID COOLIDGE, D.D.S., *Professor and Head of the Department*

JAMES ROY BLAYNEY, D.D.S., *Instructor*

ROBERT EDWIN WILDER, D.D.S., *Instructor*

**Required Courses—Third Year**

**3-4. Pharmacology and Therapeutics.**—Prescription writing; drugs and their therapeutic classifications; action of drugs; anesthetics and stimulants. Lectures, 1. *I, II.*

Professor COOLIDGE, Dr. BLAYNEY

**8. Pharmacology and Therapeutics.**—Laboratory course. 1 two-hour period. *II.*

Professor COOLIDGE, Dr. BLAYNEY

**Required Courses—Fourth Year**

**11-12. Therapeutics.**—Pathological conditions of the peridental membrane and dental pulp. Prophylaxis. A thesis on oral hygiene required. Lectures and recitations, 2. *I, II.*

Professor COOLIDGE, Dr. BLAYNEY

**15-16. Infirmary Clinic.**—Practical examination and diagnosis. Systematic records of history, diagnosis, and treatment. 1,056 hours,<sup>1</sup> 33 hours a week. *I, II.*

Professor COOLIDGE, Dr. BLAYNEY, Dr. WILDER

<sup>1</sup> These hours are distributed among the various clinical departments.

**ORAL SURGERY AND ORAL PATHOLOGY**

FREDERICK BROWN MOOREHEAD, M.S., D.D.S., M.D., *Professor of Oral Surgery and Oral Pathology and Head of the Department*

LOUIS SCHULTZ, D.D.S., M.D., *Professor of Oral Surgery and Oral Pathology*

FRANK JOSEPH BERNARD, D.D.S., *Assistant Professor in Extracting*

ANNA REGINALDA BOLAN, R.N., *Instructor in Oral Surgery and Supervising Nurse*

JAMES EVERETT FONDA, D.D.S., *Assistant in Oral Surgery*

CARROLL W STUART, D.D.S., *Assistant in Oral Surgery (extracting)*

The courses in oral surgery are designed to prepare the student to interpret the lesions which fall within the limits of the practise of oral surgery. While major operations are performed in the clinic, special emphasis is laid upon the diagnosis and treatment of lesions which properly come within the limits of the general practise of dentistry.

**Required Courses—Third Year**

1-2. **Principles of Surgery.**—Lecture and conference course. Lecture or conference, 1. *I, II.* Professor MOOREHEAD or Professor SCHULTZ

5-6. **Oral and Dental Pathology.**—Pathological changes in oral cavity; general disease processes; neoplasms of mouth and jaws; dental pulp, peridental membrane, and alveolar process. Lectures, recitations, demonstrations, and laboratory work. 1 two-hour period. *I, II.* Professor MOOREHEAD, Professor SCHULTZ, and assistants

**Required Courses—Fourth Year**

11-12. **Oral Surgery.**—Etiology, diagnosis, treatment of surgical lesions, and local and general anesthetics. Lecture, 1. *I, II.* Professor MOOREHEAD or Professor SCHULTZ

15-16. **Oral Surgery Clinic.**—General case discussions and diagnosis, students participating by assignment. Demonstrations of surgical technic, local and general anesthetics. One three-hour period. *I, II.*

Professor MOOREHEAD, Professor SCHULTZ, and assistants

19-20. **Extracting Clinic.**—The selection and application of forceps and elevators; nitrous oxid and oxygen; novocain; condition and infiltration methods; asepsis and after-treatment of cases. 1,056 hours<sup>1</sup> to small groups, 6 three-hour periods. *I, II (one and a half weeks).* Dr. BERNARD, Miss BOLAN, and assistants

**ORTHODONTIA**

FREDERICK BOGUE NOYES, A.B., D.D.S., *Professor and Head of the Department*

BURNE OLIN SIPPY, D.D.S., *Instructor*

**Required Courses—Fourth Year**

3-4. **Orthodontia.**—Normal occlusion and its relation to the harmonious development of the features: classification, etiology, and treatment of mal-occlusions. Lecture, 1. *I, II.* Professor NOYES

7-8. **Practical Orthodontia.**—Demonstration and technic. 2. *I, II.* Dr. SIPPY

**ROENTGENOLOGY**

JOHN C MCGUIRE, D.D.S., *Assistant Professor*

WACLAW HOWARD KUBACKI, D.D.S., *Instructor*

<sup>1</sup> These hours are distributed among the various clinical departments.

## Required Course—Fourth Year. Third Year, II.

3. **Roentgenology.** History and theory; practical application; roentgenograms, technic, and interpretation. Lectures, 1. *I.* Laboratory to small groups, 8 two-hour periods. *I* or *II.*

Assistant Professor MCGUIRE and assistant

## DENTAL JURISPRUDENCE

ELMER DEWITT BROTHERS, B.S., LL.B., *Lecturer*

## Required Course—Fourth Year

3. **Dental Jurisprudence.**—Individual and professional rights and obligations; responsibilities arising from the relation of dentist and patient; confidential character and inviolability of such relation; dental laws of the various states. Lectures, 1. *I.*

Mr. BROTHERS

## ETHICS AND ECONOMICS

## Required Course—Fourth Year

4. **Ethics and Economics.**—Lectures and conferences, 1. *II.*

Professor MOOREHEAD, Professor NOYES

## COURSES FOR PRACTITIONERS

Courses will be arranged for an individual or group of individuals. Application for such courses should be made to the Dean.

## SUMMARY OF THE CURRICULUM

## First Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
Zoology (including 72 hours anatomy).....	48	48	96	96	288
Chemistry (General Inorganic).....	64	....	96	....	160
Chemistry (Qualitative Analysis).....	....	16	....	80	96
Rhetoric.....	48	48	....	....	96
Operative Dentistry (Dental Anatomy).....	16	....	96	....	112
Prosthetic Dentistry.....	....	16	....	128	144
General Histology.....	....	32	....	80	112
Technical Drawing.....	....	....	80	....	80
	176	160	368	384	1088

## Second Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
Anatomy.....	32	32	96	96	256
Bacteriology.....	....	48	....	80	128
Chemistry (Organic).....	32	....	96	....	128
Chemistry (Physiological).....	....	32	....	80	112
Dental Histology and Embryology.....	16	....	80	....	96
Operative Dentistry.....	16	16	80	80	192
Prosthetic Dentistry.....	32	32	112	112	288
	128	160	464	448	1200

## Third Year

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
General Pathology.....	64	....	80	....	128
Metallurgy.....	32	....	64	....	96
Materia Medica, and Therapeutics.....	16	16	....	32	64
Operative Dentistry.....	16	16	80	80	192
Prosthetic Dentistry.....	16	16	96	96	224
General Clinics (Infirmary Practise).....	....	....	....	256	256
Physiology.....	64	64	48	48	224
Principles of Surgery.....	16	16	....	....	32
Dental Pathology.....	....	16	16	....	64
	240	144	384	528	1296

**Fourth Year**

Departments	Didactic		Hours Laboratory and Clinical		Total
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	
General Clinics (Infirmary Practise).....	....	....	528	528	1056
Operative Dentistry.....	32	32	....	....	64
Orthodontia.....	16	16	32	32	96
Prosthetic Dentistry.....	32	32	16	....	80
Roentgenology.....	16	....	16	....	32
Therapeutics.....	32	32	....	....	64
Oral Surgery.....	16	16	48	48	128
Jurisprudence, Ethics, and Economics.....	16	16	....	....	32
	<hr/> 160	<hr/> 144	<hr/> 640	<hr/> 608	<hr/> 1552

# THE SCHOOL OF PHARMACY

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For the *faculty* of the School of Pharmacy, see page 41, for a description of the *building*, see page 59; for *scholarships*, see page 103.

## HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. The first class, of two students, was graduated in 1861. The war caused a suspension of teaching, and the school was not reopened until 1870. The fire of 1871 destroyed the equipment, but in 1872 instruction was resumed for the second time and has since continued without interruption.

The College was formally united with the University May 1, 1896, becoming the technical School of Pharmacy of the University of Illinois.

## LOCATION

The School of Pharmacy buildings are located at the corner of Wood and Flournoy streets in Chicago.

This location is in the great medical center of Chicago and close to the colleges of Medicine and Dentistry of the University.

## EQUIPMENT

The total capacity of the laboratories is sufficient for 266 students, working at one time.

The laboratories are supplied with compound microscopes, analytical balances, and special apparatus, and with collections of crude drugs, medicinal plants, chemicals, and pharmaceutical products.

The library contains over three thousand volumes, including, in addition to the usual works of reference, many rare books and complete files of the leading pharmaceutical journals.

## CURRICULUMS

### For the Degree of Graduate of Pharmacy

In the curriculum leading to the degree of Graduate in Pharmacy the instruction is so arranged as to require the attendance of each student on three or four days each week and from twenty-one to twenty-six hours weekly during two annual sessions of thirty-six weeks each. This arrangement is advantageous to drug clerks who desire to spend a part of their time in drug stores while attending school, thereby adding to their practical experience and at the same time earning a part or all of their living expenses.

The subjects taught are chemistry, general, pharmaceutical, and analytical; pharmacy, theoretical, manufacturing, and dispensing; botany; physiology; and materia medica.

### For the Degree of Pharmaceutical Chemist

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied microscopy, and bacteriology, or to prepare themselves for positions in food and drug laboratories, the School offers a

three-year curriculum leading to the degree of Pharmaceutical Chemist. This curriculum comprises three annual sessions of thirty-six weeks each, the first two years being identical with the curriculum for the degree of Graduate in Pharmacy. The third year includes thirty-five hours a week for thirty-six weeks and consists largely of laboratory practise.

This curriculum includes, in addition to the subjects mentioned above, organic analysis and proximate assays, new remedies, analysis of urine, food and sanitary analysis, bacteriology, and applied microscopy.

The system of teaching includes lectures, illustrations, demonstrations, recitations, written and oral examinations, and individual practise and personal instruction in the various laboratories, much time being devoted to this important part of the student's work.

### ADMISSION

For the requirements for matriculation in the School of Pharmacy, see page 77.

Admission as special students, not candidates for a degree, is restricted to registered apprentices, assistants, or pharmacists, not less than twenty-one years of age.

Students who have pursued courses of study in other schools of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this School.

### GRADUATION

Drug store experience is not made a requirement for the degree of Pharmaceutical Chemist. Students who have satisfactorily completed the curriculum will be awarded the degree on the recommendation of the faculty.

For the degree of Graduate in Pharmacy this School has always required practical drug store experience. The actual time of attendance at the School, amounting to eighteen months, is credited as part of the four years of practical experience required for the degree. Candidates must have attained the age of twenty-one years and have satisfactorily finished the work leading to the degree.

Students who have successfully met the scholarship requirements, but are lacking in age or in practical experience, will receive a certificate and will be awarded the diploma when the requirements of age and experience are satisfied.

Persons competent to fill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

### STATE REGISTRATION

The pharmacy law of Illinois requires all candidates for the certificate of registered pharmacist to pass an examination given by the State Department of Registration and Education. Credit is given as a part of the "practical experience in compounding drugs" required by the law, for the actual time of attendance at a recognized school of pharmacy, but not to exceed twenty-four months for registered pharmacist nor twelve months for registered assistant pharmacist.

An amendment to the pharmacy law, in effect July 1, 1917, requires graduation from a recognized school of pharmacy, of candidates for the certificate of registered pharmacist, with the exception of those drug clerks who were entered on the rolls of the Board of Pharmacy as apprentices or assistants prior to the date when the law went into effect. The diploma of this school also admits to the pharmacy examinations in other states where the graduation requirement is in force.

The School holds membership in the American Conference of Pharmaceutical Faculties.



**FEES AND EXPENSES**

For a statement of the fees, see page 112. Fees are payable in advance. Students unable to meet this requirement must make satisfactory arrangements with the Dean at the beginning of the course.

**BOARD AND LODGING.**—Good board and lodging, within a short distance of the School, can be had for from seven to eight dollars a week.

**SELECTION OF SEATS.**—Seats in the lecture halls and desks in the laboratories will be assigned to students in the order of enrollment. To enroll, junior students will fill out the matriculation blank and forward it to the Dean together with credentials for admission and the matriculation fee of ten dollars; senior students will pay the registration fee of five dollars. It is of advantage to students to matriculate early.

**OPPORTUNITIES FOR EMPLOYMENT.**—A register of students desiring employment and of pharmacists wishing to employ students is kept at the School. Students desiring employment are invited to correspond with the Dean.

**FURTHER INFORMATION**

Further information may be found in the special announcement of this School, which may be obtained from the DEAN, SCHOOL OF PHARMACY, 701 South Wood Street, Chicago, Illinois.



PART III  
DESCRIPTION OF COURSES



# DESCRIPTION OF COURSES

## EXPLANATION

The arrangement of subjects in the following Description of Courses is alphabetical. The connections of allied departments are indicated by cross references.

Following the description of each course of instruction will be found the requirements, if any, for admission to that particular course. The sequence indicated by these prerequisites must be followed. For instance, under Art and Design 7a, Still-life in Oil Colors, the prerequisites given are Art and Design 1 and 2. These two courses must be completed before Course 7a may be taken.

If a course not required for graduation is selected by fewer than five students it may be withdrawn for the semester.

Graduate courses are numbered upwards from 100.

Credit is reckoned, *for undergraduate students*, in *semester hours*, or simply *hours*. An *hour* is one class period a week for one semester or the equivalent in laboratory, shop, or drawing room.

The semester, and the number of hours each semester for which the course counts, are shown after each course, thus: *I, II; (2)*. The Roman figures indicate semesters; the Arabic numerals in parentheses indicate hours of credit for *each semester* for undergraduates.

*Credit for first-year graduate students*, candidates for the master's degree, is counted in units. A unit course is one which requires ten hours of time a week through one semester, irrespective of the distribution of that time in class work, laboratory work, and private study; four such courses or their equivalent constitute a full minimum program for one semester. The unit values of graduate courses (numbered 100 and upwards) are indicated in the following pages. Courses of the intermediate groups "for graduates and advanced undergraduates," are in general (unless otherwise specified by the department concerned) evaluated as follows for graduate credit: (a) courses open only to students having at least senior standing, 1 unit for a 4-hour or 5-hour course,  $\frac{1}{2}$  unit for a 1-hour, 2-hour, or 3-hour course; (b) courses open to juniors,  $\frac{1}{2}$  unit for a 4-hour or 5-hour course;  $\frac{1}{4}$  unit for a 1-hour, 2-hour, or 3-hour course.

*For second-year and third-year graduate students*, candidates for the doctor's degree, no record of units is kept.

The omission of a course for the current year is indicated by enclosing the entire description of such a course in brackets.

Courses given in the summer session of 1919 are indicated by the initial letter S preceding the number and are grouped by departments after the courses given during the winter.

## ACCOUNTANCY

(See BUSINESS ORGANIZATION AND OPERATION.)

## AGRICULTURAL COLLEGE EXTENSION

FRED HENRY RANKIN, B.S., *Superintendent and Assistant to the Dean*  
 ARETAS WILBUR NOLAN, M.S., *Assistant Professor, (On leave, 1919-20.)*  
 ALBERT WOODWARD JAMISON, M.S., *Assistant Superintendent*  
 ROBERT ENOCH HIERONYMUS, A.M., LL.D., *Community Adviser*  
 JAMES HENRY GREENE, M.S., *State Leader, Junior Extension*

**3. Agricultural Extension Teachings.**—The service of extension enterprises to the people; farmers' institutes; agricultural extension schools; farmers' clubs and cooperative work in rural communities. *II*; (1). Professor RANKIN, Assistant Professor JAMISON  
*Prerequisite:* One year of university work.

**4. Elementary Agricultural Extension.**—Introduction to agricultural college and university work; methods of study; scope and application of agricultural teaching and investigation. Lectures. Required of first-year students. *I*; (1).

(Credit given to agricultural freshmen only.) DEAN DAVENPORT and other lecturers

**NOTE.**—For former courses offered under Agricultural College Extension, and other related courses, see Agricultural Education.

## AGRICULTURAL EDUCATION

ARETAS WILBUR NOLAN, M.S., *State Supervisor of Agricultural Education*  
 CARL COLVIN, B.S., *Associate*  
 DWIGHT LOGAN REID, A.M., *Associate*

**50. Teaching.**—Students enrolling in this course will become members of agricultural classes in Champaign, Urbana, and other neighboring high schools, and teach under the supervision of a staff teacher for one semester. *I* or *II*; (5). Mr. COLVIN, Mr. REID  
*Prerequisite:* Education 10 and senior standing.

**51. Teachers' Course in Agriculture.**—Principles and methods in secondary school agriculture. *I, II*; (3). Mr. COLVIN, Mr. REID  
*Prerequisite:* Education 10 and senior standing.

**91. Agricultural Education.**—Problems of administration, supervision, and teaching vocational agriculture under the Smith-Hughes Act. *II*; (2).

Assistant Professor NOLAN

*Prerequisite:* Senior standing.

## Summer Session Courses

**S1. General Agriculture.**—This course is designed to meet the needs of those who are not specializing in agriculture. The major phases of farming will be considered. The larger problems of the farm and farmer will be studied in their relation to the school. Selection of subject matter and methods of presentation for elementary and secondary schools. Lectures, demonstrations, and field trips. (2½). Mr. COLVIN

**S2. The Teaching of Agronomy.**—A study of the content of a year's course in agronomy for high schools. Farm crops and soils and methods of organization for instruction on the project basis. (1½). Mr. REID

**S4. Projects in Vocational Agriculture.**—A study of the subject matter involved and the methods used in plant and animal projects in vocational agriculture, recommended by the State Board for Vocational Education. (1½). Mr. REID

*Equivalent:* Agricultural Education 4 (in part).

**S6. The Teaching of Agriculture.**—Principles and methods in teaching vocational agriculture. A study of the Smith-Hughes Act in its relation to agriculture. Designed for teachers of vocational agriculture in secondary schools. (2½). Mr. COLVIN

*Equivalent:* Agricultural Education 3 (in part).

*Prerequisite:* One year or its equivalent in technical agriculture.

**S7. Boys' and Girls' Club Work.**—A course designed for supervisors and leaders of boys' and girls' club work, county leaders, and urban garden supervisors. (2).

Mr. GREENE

**S90. Problems of Rural and Agricultural Education.**—Designed primarily for superintendents and principals who are concerned with the problems and administration of rural and agricultural education. Rural life conditions and needs, and the agencies for improvement. The place and development of agricultural education in rural progress. (2).

Mr. REID

**S91. Supervision of Vocational Agriculture.**—For those interested in the supervision and administration of agricultural education, either as state supervisors, instructors in teacher-training departments, or directors of vocational agriculture in secondary schools. (1).

Assistant Professor NOLAN

**S99. Policies in Agricultural Education.**—National, state, and local problems and policies in agricultural education. Vocational education in relation to the farmer's life and work. (1).

Dean DAVENPORT

*Prerequisite:* Graduate or senior standing.

## AGRONOMY

CYRIL GEORGE HOPKINS,<sup>1</sup> Ph.D., *Professor of Agronomy*  
 LOUIE HENRY SMITH, Ph.D., *Professor of Plant Breeding*  
 JEREMIAH GEORGE MOSIER, B.S., *Professor of Soil Physics*  
 WILLIAM LEONIDAS BURLISON, Ph.D., *Professor of Crop Production*  
 ROBERT STEWART, Ph.D., *Professor of Soil Fertility*  
 ALBERT LEMUEL WHITING, Ph.D., *Professor of Soil Biology*  
 AXEL FERDINAND GUSTAFSON,<sup>2</sup> M.S., *Assistant Professor of Soil Physics*  
 FREDERICK CHARLES BAUER,<sup>2</sup> B.S., *Assistant Professor of Soil Fertility*  
 FORREST ADISON FISHER, B.S., *Associate of Soil Physics*  
 MARVIN EDWARD JAHR, B.S., *Associate of Farm Mechanics*  
 ARTHUR MAXWELL BRUNSON, B.S., *Associate of Plant Breeding*  
 HOWARD JOHN SNIDER, B.S., *Associate of Soil Fertility*  
 ROY HANSEN, M.S., *Associate of Soil Biology*  
 RAYMOND STRATTON SMITH, Ph.D., *Associate of Soil Physics*  
 CLARK WESLEY BULLARD, B.S., *Associate of Farm Mechanics*  
 ERNEST E DE TURK, Ph.D., *Associate of Soil Fertility*  
 RAY IRIS SHAWL, M.S., *Instructor of Farm Mechanics*  
 GEORGE HARLAN DUNGAN, B.S., *Instructor of Crop Production*  
 JOHN PIEPER, M.S., *Instructor of Crop Production*  
 CARL A SCHOLL, B.S., *Instructor of Farm Mechanics*  
 VICTOR ELWIN SPENCER, B.S., *Assistant of Soil Analysis*

*Cooperating—*

E W LEHMANN, *Associate Professor of Agronomy in the University of Missouri (Summer Session)*

<sup>1</sup> Died Oct. 6, 1919.

<sup>2</sup> On leave of absence.

## Courses for Undergraduates

Crops: Agronomy 7, 8, 18, 22, 25.

Soils: Agronomy 9, 10, 11, 12, 13, 18, 23.

Farm Mechanics and Buildings: Agronomy 1, 2, 3, 4, 17, 18, 19, 20, 26, 27.

**1. Drainage.**—Drainage and its surveying operations. Chaining, mapping, leveling, designing, setting grade stakes, laying tile. Lectures and laboratory first half semester field work second half semester. *II*; (3). Mr. JAHR

*Prerequisite:* Agronomy 9 (soil physics), or its equivalent.

**2. Power Driven Machinery.**—Adaptability, construction, principles of operation, adjustment, troubles, purchase, and care of field and belt driven machines for soil, seed, and feed preparation, and for seeding, cultivating, harvesting, and handling farm crops. Lectures, recitations, laboratory practise. *I*; (3). Mr. SHAWL, Mr. SCHOLL

*Prerequisite:* Agronomy 26.

**3. Farm Motors.**—Internal combustion engines and tractors—theory, ignition, operation, and economy—practise in adjustments, troubles, and testing. The horse as a motor, windmills, waterpower, steam engines, electric motors—their theory, operation, and economy. Transmission of farm power and its application to farm operations. Lectures; quizzes; laboratory. (Alternating with Mechanical Engineering 71 and 73 if desired.) *II*; (3). Mr. SHAWL, Mr. SCHOLL

*Prerequisite:* Agronomy 26.

**4. Farm Buildings.**—Materials; construction, arrangement, design, and cost estimation of machine sheds, granaries, cribs, silos, poultry houses, swine houses, barns, and farm residences. Recitations; drafting. *I*; (3). Mr. BULLARD

*Prerequisite:* Agronomy 26.

**7. Advanced Farm Crops.**—Climatic and soil factors in relation to crop production; meadows and pastures: rotation; distribution of labor; cost of production; pure seed production; supply and consumption of products and by-products of farm crops; storage and marketing. Lectures; assigned reading; laboratory; demonstrations. *II*; (3).

*Prerequisite:* Agronomy 25, Chemistry 13a, and either Botany 27 or an approved equivalent in science (consult instructor). Professor BURLISON

**8. Special Farm Crops.**—Special crops in which the student is interested. Reading; experiments by pot culture in the greenhouse or by pots in the field. Part of this work may be done during summer vacation. *II*; (3). Professor BURLISON

*Prerequisite:* Agronomy 7.

**9. Soil Physics and Management.**—Origin and formation of soil material, mechanical composition and classification; moisture; texture as affecting capillarity; diffusion, temperature, aeration, and as affected by plowing, harrowing, cultivating, rolling, and cropping, wasting by washing, fall or spring plowing and drainage as affecting moisture, temperature, and root development; real and apparent specific gravity, porosity, water holding capacity, and capillary power; the physical effects of different systems of rotation and of continuous cropping with various crops. Lectures; laboratory. *I* or *II*; (5).

Professor MOSIER, Mr. FISHER, Dr. SMITH

*Prerequisite:* Chemistry 2, and one unit of entrance or university physics.

**10. Special Work in Soil Physics.**—Physical properties of special soils; physical analysis; determination of hygroscopic and wilting coefficients and moisture equivalents; effect of tillage on physical factors as related to crop growth in field and greenhouse. Students



may work with special soils. Under special arrangement part of this work may be done during summer vacation. *Time to be arranged.* II; (2-5).<sup>1</sup> Dr. SMITH, Mr. FISHER  
*Prerequisite:* Agronomy 9, and approval of the Soil Physics division.

**11. Soil Biology.**—Quantitative studies of the biochemical activities of soil microorganisms with respect to fertility, factors influencing the bacteria, protozoa, algae, and fungi; isolation and study of organisms; action on insoluble mineral plant food; fermentation of crop residues, green and farm manures; nitrogen fixation, assimilation; and preservation, and similar studies of the other essential elements. Lectures; quiz; laboratory. II; (5).

Professor WHITING, Mr. HANSEN

*Prerequisite:* Agronomy 12 and Bacteriology 1, or 5, or 20, or the equivalent.

**12. Soil Fertility, Fertilizers, Rotations.**<sup>2</sup>—The influence of fertility on yield; effect of different crops on the soil and on succeeding crops; different rotations; ultimate effect of different systems of farming on fertility and productivity; composition and value of manures and fertilizers, soils cropped continuously with different crops and with a series of crops; the fertility of soils of different types from different sections of Illinois. Lectures; laboratory. II; (5).

Professor STEWART, Dr. DE TURK, Mr. SNIDER

*Prerequisite:* Chemistry 13a.

**12a. Soil Fertility, Fertilizers, Rotations.**<sup>2</sup>—The same as Agronomy 12, for advanced students. Lectures; quiz. II; (2).

Professor STEWART, Dr. DE TURK

*Prerequisite:* Graduate standing, or advanced undergraduate standing with the approval of the division.

**13. Investigation of the Fertility of Special Soils.**<sup>3</sup>—Soils in which the student is interested. Nature and quantity of the elements of fertility; effect of different fertilizers, as determined by pot cultures and by pot experiments; systematic study of similar work of experiment stations and experimenters. I; (3).

Dr. DE TURK

*Prerequisite:* Agronomy 12.

**17. Harvesting Machinery.**—Expert work on binders, mowers, rakes, loaders, and stackers. For students preparing to become professional field experts on these machines. (Before registering in this course students are requested to consult instructor regarding requirements for successful experting.) II; (3).

Mr. SHAWL

*Prerequisite:* M. E. 71; Agronomy 2, and Agronomy 3 or registration therein.

**18a-18b. Investigation and Thesis.**—I, II; (5-10)<sup>1</sup>

Heads of divisions

**19a-19b. Research Work in Agronomy.**—Consult instructor regarding time and requirements. I, II; (5-10).<sup>1</sup>

Heads of divisions

**20. Farm Concrete Construction.**—Materials used in concrete construction; mixing and placing; simple comparative tests; specifications and estimates for farm concrete construction. Recitations; laboratory. II; (3).

Mr. JAHR

**22. Plant Breeding.**—The improvement by breeding of field crops, including grains, grasses, and legumes; general principles involved, with practical applications. Lectures, assigned reading, demonstrations, and laboratory.

Professor SMITH, Mr. BRUNSON

*Prerequisite:* Botany 1; Chemistry 13a; Agronomy 25; Junior standing.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study list, *not* the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

<sup>2</sup>A required inspection trip to certain soil experiment fields or farms will be arranged in May or early June, in connection with courses 12 and 12a, which will require an expense of about \$10 on the part of the student.

<sup>3</sup>The student is advised to collect in advance a representative composite sample of surface soil (at least 6 pounds) from land in which he is interested (see page 44 of the Soil Fertility Laboratory Manual, or Illinois Experiment Station Circular 150).

**23. Plant Food Supplies.**—The world's supply of plant food materials; utilization and conservation. *II*; (2). Professor STEWART

*Prerequisite:* Agronomy 12.

**25. Farm Crops.**—Plant growth; structure; principles governing the production and harvesting of common farm crops; habits, characteristics, requirements, means of improvement; common diseases, insects, and their control; weed seed identification; methods of weed control, seed testing for purity and germination; market grades of grain; grain judging. *I, II*; (4). Professor BURLISON, Mr. DUNGAN, Mr. PIEPER

**26. Elementary Farm Mechanics.**—Ropes, soldering, babbitting, belt lacing, pipe cutting, plumbing, sewage disposal, farm water systems, lighting systems, heating systems, power transmission, elementary mechanics, and equalizers. Design of a farm shop. *I or II*; (3) Mr. JAHR, Mr. BULLARD, Mr. SCHOLL

**27. Drainage Design.**—Designing of tile drainage systems from level note data and contour maps; estimating sizes, amounts, and cost of tile, and cost of system; designing of outlet open ditch system for drainage districts; estimation of sizes and costs; drainage district laws; preparing bids on contract jobs; advanced field work. *I*; (1-5).<sup>1</sup> Mr. JAHR

*Prerequisite:* Agronomy 1, or Civil Engineering 96, 31, or 32.

### Courses for Graduates

**101. Soil Investigations.**—Systems of soil investigations; sources of error and methods of control; interpretation of results. *Twice a week, I, II*; (1 unit). Professor STEWART

**104. Seminar in Agronomy.**—Critical study by graduate students, faculty, and staff members of current literature on the subject of soils and crops. *Once a week; I, II*; ( $\frac{1}{2}$  unit). Professor WHITING, and others

**112. Plant Breeding.**—A detailed study of experiments at this station; methods and results reported from other states and from foreign countries. *I, II*; (1 to 2 units). Professor SMITH

**114. Crop Production.**—Crop ecology, methods and results of crop production investigations. *Once a week; I, II*; ( $\frac{1}{2}$  to 2 units). Professor BURLISON

**118. Investigations.**—A special problem is chosen by each student. Consultation one to five times a week for different students. *I, II*; (1 to 4 units). Heads of divisions

### Summer Session Courses

**S26. Elementary Farm Mechanics.**—Ropes, soldering, babbitting, belt lacing, pipe cutting, plumbing, sewage disposal, farm water supply systems, lighting systems, heating systems, power transmission, and equalizers. Methods of organizing and presenting this material for secondary schools and home project work. M.T.W.T.F., 1, 2; 205 F. M. (2 $\frac{1}{2}$ ). Associate Professor LEHMANN

*Equivalent:* Agronomy 26 (in part).

**S28. Farm Machinery.**—The more important farm machines, such as plows, binders, mowers, etc. The horse and tractor as prime movers. Methods of adapting this material to the needs of secondary schools and home project work. M.T.W.T.F., 3, 4; 205 F. M. (2 $\frac{1}{2}$ ). Associate Professor LEHMANN

*Equivalent:* Agronomy 2 and 3 (in part).

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5, but 2, or 3 or 4, or 5.

## ANIMAL HUSBANDRY

HERBERT WINDSOR MUMFORD, B.S., *Professor, Animal Husbandry*  
 HARRY SANDS GRINDLEY, D.Sc., *Professor, Animal Nutrition*  
 WALTER CASTELLA COFFEY, M.S., *Professor, Sheep Husbandry*  
 JAMES LLOYD EDMONDS, B.S., *Professor, Horse Husbandry*  
 HENRY PERLY RUSK, M.S.A., *Professor, Cattle Husbandry*  
 ROBERT GRAHAM, D.V.M., *Professor, Animal Pathology*  
 JOHN A DETLEFSEN, D.Sc., *Professor, Genetics*  
 WILLIAM HERSCHEL SMITH, M.S., *Assistant Professor, Animal Husbandry*  
 HAROLD HANSON MITCHELL, Ph.D., *Assistant Professor, Animal Nutrition*  
 DANIEL OTIS BARTO, B.S., *Associate, Animal Husbandry*  
 GILBERT GUSLER, M.S., *Assistant Professor, Animal Husbandry*  
 ROSCOE RAYMOND SNAPP, B.S., *Assistant Professor, Animal Husbandry*  
 SLEETER BULL, M.S., *Associate, Animal Nutrition*  
 ELMER ROBERTS, Ph.D., *Associate, Genetics*  
 JAMES WILBUR WHISENAND, M.S., *Associate, Animal Husbandry*  
 WILLIAM GARFIELD KAMMLADE, M.S., *Associate, Animal Husbandry*  
 JOHN BENJAMIN RICE, B.S., *Associate, Animal Husbandry*  
 HERMAN RICHARD SCHWARZE, D.V.S., M.D.C., *Associate, Animal Pathology*  
 HENRY CARL ECKSTEIN, M.S., *Instructor, Animal Nutrition*  
 WORTH ARTHUR ALLISON, A.B., M.S., *Instructor, Animal Husbandry*  
 THOMAS SHERMAN HAMILTON, B.S., *Assistant, Animal Nutrition*  
 IVAN BERTRAND BOUGHTON, D.V.M., *Assistant, Animal Pathology*

## Courses for Undergraduates

Animal Pathology: Animal Husbandry 34, 35.  
 Beef Cattle: Animal Husbandry 11a, 11b.  
 Breeding, Feeding, Management, and Marketing: Animal Husbandry 8, 21, 28, 29, 30, 32.  
 General Judging: Animal Husbandry 1a, 2a, 4a, 5, 11a, 22.  
 Genetics: Animal Husbandry 30.  
 Horses: Animal Husbandry 4a, 4b.  
 Meat: Animal Husbandry 10, 24.  
 Nutrition: Animal Husbandry 7, 31.  
 Poultry: Animal Husbandry 23.  
 Sheep: Animal Husbandry 1a, 1b, 27.  
 Swine: Animal Husbandry 2a, 2b, 26.

NOTE.—Students registered in advanced courses such as 10, 23, 29, and 32, are required to participate in tours of inspection of representative markets, farms, herds, flocks, and studs.

**1a. Sheep: Breeds and Market Classes.**—Breeds used for mutton and wool production; types, characteristics, and adaptability; market classes and grades of sheep and wool. Lectures; judging. I; (2). Professor COFFEY, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**1b. Sheep: Breeding, Feeding, and Management.**—Pure bred and grade flocks; feeding, housing, and shepherding. Lectures; reference readings. I; (3).

Professor COFFEY, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 1a and 1b the same semester.

**2a. Swine: Judging.**—History of the leading breeds; types, characteristics, and adaptability; market classes and grades; market reports. Lectures; judging. *II*; (2).

Mr. RICE

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**2b. Swine Husbandry.**—Economic production of market and breeding hogs. Breeding, feeding, housing, care, sanitation, common diseases, and marketing. Lectures; assigned reading; quizzes. *II*; (3).

Mr. RICE

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 2a and 2b the same semester.

**4a. Market Classes of Horses and Mules and Breeds of Horses.**—Market classes, grades, and requirements. History of the leading breeds; types, characteristics, and adaptability. Lectures; judging. *II*; (2).

Professor EDMONDS, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5, or its equivalent.

**4b. Breeding, Feeding, and Management of Horses.**—Care of stallions, mares, and foals; of work horses and drivers at labor and idle; fattening horses for market. Lectures; assigned readings. *II*; (3).

Professor EDMONDS, Mr. KAMMLADE

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 4a and 4b the same semester.

**5. Fundamentals of Live Stock Judging.**—Principles and criteria governing the selection of farm animals for market, feed lot, breeding purposes, milk production and work; nomenclature, the use of the score card, and the comparative judging of the various types of live stock; origin of types; characteristics of the breeds. Required in freshman year. *I* or *II*; (3).

Assistant Professor GUSLER, Mr. BULL, Mr. WHISENAND

**7. Principles of Animal Nutrition.**—Composition of feeding stuffs and the chemistry of food nutrients; digestion and the determination of digestibility; absorption and metabolism of organic and inorganic nutrients; the function of fats, carbohydrates, proteins, and ash constituents in nutrition; energy, metabolism and the fuel value of the feeding stuffs; regulating factors in metabolism; food requirements and feeding standards; the specific value of different feeds in nutrition. Lectures; recitations. *I*; (5).

Assistant Professor MITCHELL

*Prerequisite:* Animal Husbandry 21; Chemistry 13a.

**8. Principles of Breeding.**—Elemental facts of evolution and genetics; origin of domesticated animals and plants; history of systematic breeding; the relation to genetics of old and new theories of breeding. Required in the sophomore year. *I* or *II*; (2).

Professor DETLEFSEN, Dr. ROBERTS

**9. Investigation and Thesis.**—Open to any student who has completed not less than 90 hours credit before the senior year provided he has done not less than 20 hours work in courses pertinent to the thesis problem. Subject to the approval of the head of the department. *I* or *II*; (5-10).<sup>1</sup> Time to be arranged.

Heads of divisions

**10. Meat.**—Farm butchering, curing, and care of meats; yield, quality, and values of meat and by-products, as related to breeding, feeding, and health of animals; classes, grades, and cuts of meat in wholesale and retail markets. The class will visit a Chicago packing house. The cost of the trip will be about \$10. *II*; (3).

Professor COFFEY

*Prerequisite:* Two years of university work.

**11a. Beef Cattle.**—Breeds and market classes; history of the leading breeds; beef type from the standpoint of the butcher, the feeder, and the breeder; classification and

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value of each grade according to current market reports. Judging; lectures; quizzes; assigned readings. *I*; (2). Professor RUSK, Assistant Professor SNAPP, Mr. ALLISON

*Prerequisite:* Animal Husbandry 5 or its equivalent.

**11b. Beef Production.**—Breeding and management of pure bred herds; breeding for the market; combined beef and milk production, economic factors in cattle feeding; influence of age, grade, breed, condition, and sex; equipment; pork and manure as by-products of beef production. Lectures; quizzes; assigned readings (text book). *I*; (3).

Professor RUSK, Assistant Professor SNAPP, Mr. ALLISON

*Prerequisite:* Animal Husbandry 5, 8, and 21, or their equivalents.

It is advisable to take 11a and 11b simultaneously.

**21. Principles of Feeding.**—Classification, digestibility, and functions of feed nutrients; classification and values of feeding stuffs; feed requirements and calculation of balanced rations for farm animals. Required in the sophomore year. *I* or *II*; (2).

Mr. BULL, Assistant Professor GUSLER, Mr. WHISENAND

*Prerequisite:* Chemistry 1 or 1a; Chemistry 2; Animal Husbandry 5; and registration in Animal Husbandry 8.

**22. Advanced Stock Judging.**—Animal conformation, quality, and condition with reference to market and show yard requirements; selection of horses, beef cattle, sheep, and swine, for feed lot, market, and exhibition; judging at live stock shows. *I*; (3).

Professor MUMFORD and heads of divisions

*Prerequisite:* Animal Husbandry 1a, 2a, 4a, 11a, or their equivalents.

**23. Poultry: Types, Breeds and Varieties.**—Exhibiting, and judging; principles of breeding; poultry houses and equipment; feeding, hatching, and brooding; market eggs and poultry; crate-fattening and dressing; diseases and their treatment. A limited number of short trips will be taken, the total cost of which will not exceed \$10.00. *II*; (4).

Mr. BARTO

*Prerequisite:* Animal Husbandry 5, or its equivalent.

**24. Meat.**—Influence of type, condition, age, sex, and feeds on the yield and market grade of meat products. *II*; (2-5).<sup>1</sup> *Time to be arranged.* Professor COFFEY

*Prerequisite:* Animal Husbandry 10, and 1a or 2a or 11a; three years' work in the University, or its equivalent.

**26. Swine Husbandry.**—Special problems. *II*; (3). *Time to be arranged.*

Mr. RICE

*Prerequisite:* Animal Husbandry 2a, 2b, three years' work in the University, or its equivalent; permission of the instructor.

**27. Sheep Husbandry.**—Factors determining the importance of the industry in leading sheep growing countries, particularly different parts of the United States. *II*; (2-5).<sup>1</sup> *Time to be arranged.*

Professor COFFEY

*Prerequisite:* Animal Husbandry 1a, 1b; three years' work in the University, or its equivalent.

**28. Advanced History of Breeds of Live Stock.**—Horses, beef cattle, sheep, and swine. Methods of great breeders; performances and pedigrees of famous animals; breed type as exemplified in the University and other herds. Lectures; assigned readings; problems. No student will be allowed to register for less than 2 hours in one breed, nor for more than 2 hours without special permission of the instructor. *I*; (2-6).<sup>1</sup>

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list *not* the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

## Breeds offered 1919-1920

Beef cattle.....	Herefords, Galloways
Horses.....	Shires, Clydesdales, American Saddlers
Swine.....	Poland Chinas, Chester Whites
Sheep.....	Rambouillets, Oxford Downs

## Breeds offered 1920-1921

Beef cattle.....	Shorthorns, Aberdeen Angus
Horses.....	Percherons, Belgians, Standard breds
Swine.....	Berkshires, Duroc Jerseys
Sheep.....	Shropshires, Southdowns

Professor MUMFORD and heads of divisions

*Prerequisite:* "a" and "b" courses in class of live stock elected. See note at the beginning of description of animal husbandry courses.

**29. Systems of Live Stock Farming.**—The physical and economic factors which tend to determine the types of farming. The economic organization of the various types of live stock farming with special reference to the proportions of land, labor, and capital employed in the production of the various classes of live stock. Planning systems of live stock farming. The class will visit some of the live stock farms included in the cost accounting investigations conducted by the department of animal husbandry and the department of farm organization and management. This trip will cost about \$15.00. *II; (2).*

Professor HANDSCHIN

*Prerequisite:* Animal Husbandry 5, 8, and 21, and 6 hours' credit from 1b, 2b, 4b, or 11b; Farm Management 1. See note at the beginning of description of Animal Husbandry courses.

**30. Genetics.**—Heredity, variation, elements of biometry, and their practical application to breeding. Lectures; demonstrations; laboratory. Laboratory fee, \$1.00. *I; (5).*

Professor DETLEFSEN, Dr. ROBERTS

*Prerequisite:* Two years of university work. Before registering, students must secure the approval of the instructor.

**31. Advanced Course in Animal Nutrition.**—Some of the more advanced phases of the chemistry and physiology of nutrition; recent developments on the nature of growth, the factors affecting metabolism, and the food requirements of animals under different conditions; nutrition investigations of agricultural experiment stations in this and other countries. Lectures; quizzes; assigned readings. *II; (3). Time to be arranged.*

Assistant Professor MITCHELL

*Prerequisite:* Animal Husbandry 7; an elementary knowledge of organic chemistry is also desirable.

**[32. Marketing Live Stock.**—Markets and methods of marketing live stock and their products. Advertising and sale of surplus pedigreed live stock. Certain inspection trips will be required of the class. The expense of these trips will be about \$15.00. *II; (2).*

*Prerequisite:* Two years of university work. At least 4 credits in Animal Husbandry 1a, 2a, 4a, and 11a. See note at the beginning of description of animal husbandry courses. Not given 1919-1920.]

**34. Anatomy and Physiology of Farm Animals.**—The structure and function of the animal economy (horse and cow) in health, supplemented by a discussion of the common malformations and non-specific diseases affecting the various organs and systems of the animal. Lectures; assigned readings; quizzes. *I; (2).*

Dr. BOUGHTON

*Prerequisite:* Sixty hours of university work.

**35. Contagious Diseases of Farm Animals.**—The causes, symptoms, and methods of prevention of the common diseases of animals transmissible to man. A discussion of antiserums, vaccines, antitoxins, and bacterins, as well as other biological products as related to the prevention, cure, and diagnosis of animal diseases. Lectures; assigned readings; quizzes. *II; (2).*

Professor GRAHAM

*Prerequisite:* Animal Husbandry 34.

### Courses for Graduates

Students entering graduate work in animal husbandry must have a thoro training in the fundamental principles of the subject either in connection with or in addition to an agricultural course of study substantially equivalent to that offered in this University.

**103. Live Stock Experimentation.**—Objects, methods, and the sources of error in experimental work dealing with the feeding, breeding, and management of farm animals. *Once a week, I, II; (½ unit).* *Time to be arranged.*

Professor DAVENPORT

**110. Animal Nutrition.**—Biochemistry, digestion, metabolism, and nutritive value of the proteins. Lectures; seminar. *Twice a week; I, II; (1 unit).*

Professor GRINDLEY, Assistant Professor MITCHELL

**112. Research.**—Opportunity is afforded to pursue investigations along the following lines:

(a) Economic factors involved in meat production.

Professor MUMFORD, Professor COFFEY, Professor RUSK

(b) Systems of live stock farming.

Professor HANDSCHIN

(c) The valuation of pedigrees.

Professor MUMFORD

(d) Animal Nutrition. The chemistry of feeding stuffs; metabolism experiments and biochemical studies connected with the nutrition of farm animals.

Professor GRINDLEY, Assistant Professor MITCHELL

(e) Genetics. Problems in heredity and variation.

Professor DETLEFSEN

(f) Factors affecting the quality, quantity, strength, and condition of wool.

Professor COFFEY

(a), (b), (c), and (f), *one to three times a week; (d) and (e), five times a week; I, II; (1 to 2 units).*<sup>1</sup> These courses may be taken during the summer by special permission. *Time to be arranged.*

**116. Seminar in Animal Husbandry.**—*Once in two weeks; I, II.*

Members of the department

**117. Genetics.**—Study and criticism of genetic experiments, biological and mathematical methods employed, and the validity of the conclusions. *Two to five times a week, I, II; (1 to 2 units).* *Time to be arranged.*

Professor DETLEFSEN

### Summer Session Courses

**S5a. Animal Husbandry for Schools.**—The types and breeds, selection for market and for breeding purposes, breeding, feeding, care and management of live stock, with special reference to the materials and methods of teaching animal husbandry in schools. M.T.W.T.F., 8; Stock Pavilion (2½).

Mr. GUSLER

*Equivalent:* Animal Husbandry 5 (in part).

**S21a. Live Stock Management.**—The fundamental principles of feeding and management of live stock. Lectures, recitations, assigned readings, observation and practise.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5 but 2, or 3, or 4, or 5.

Designed to aid teachers in the live stock project work of vocational agriculture. M.T.W.T.  
9; Stock Pavilion (2). Mr. GUSLER

*Equivalent:* Animal Husbandry 21 (in part).

**S23a.—Poultry.**—Principles and practises of poultry raising on the farm and at the village home. Identification and comparison of breeds; housing, feeding, fattening, marketing; handling eggs, hatching and raising chicks, caponizing, etc. Time to be arranged. (2½). Mr. BARTO

*Equivalent:* Animal Husbandry 23 (in part).

**S30. Genetics.**—Principles of breeding and genetics in their relation to plant and animal improvement. Methods of teaching, selection of pertinent illustrative material, subject matter, and types of observation and projects possible for secondary schools. M.T.W.T., 11; 107 Genetics (2). Mr. ROBERTS

*Equivalent:* Animal Husbandry 30 (in part).

## ARCHITECTURE

LORING HARVEY PROVINE, B.S., A.E., *Professor, Architectural Engineering, Acting Head of the Department*

NATHAN CLIFFORD RICKER, D. Arch., *Professor, Emeritus*

NEWTON ALONZO WELLS, M.P., *Professor, Architectural Decoration, Emeritus*

JAMES McLAREN WHITE, B.S., *Professor, Architectural Engineering, Supervising Architect*

NATHANIEL CORTLANDT CURTIS, Ph.B., B.S., *Associate Professor, Architectural Design*

REXFORD NEWCOMB, B.S., A.M., *Assistant Professor, Architectural History*

ROBERT TAYLOR JONES, B.S., *Assistant Professor, Architecture*

DONALD MAHANEY ALLISON, A.B., *Assistant Professor, Architectural Design*

CYRUS EDMUND PALMER, B.S., M.S., *Assistant Professor, Architectural Engineering*

WILLIAM FRANK MCCAUGHEY, JR., A.B., *Instructor, Architectural Design*

LOUISE MARIE WOODROOFE, B.P., *Instructor in Freehand Drawing*

THOMAS EDWARD O'DONNELL, B.S., *Associate, Architectural Design*

WINIFRED FEHRENKAMP, B.L.S., *Librarian, Ricker Library*

JOSEPH EDWIN BURGESS, B.P., *Associate, Freehand Drawing*

CHAUNCEY RUTHVEN McANLIS, B.S., *Instructor, Architectural Engineering*

**13, 14, 15, 16. History of Architecture.**—From the Egyptian period to modern times; effects of local, political, and economic conditions; influence of material, climate, structural systems, the various countries and periods; evolution of architectural forms. Illustrated lectures; quizzes. I, II; (2). Assistant Professor NEWCOMB

*Prerequisite:* Sophomore standing in architecture or architectural engineering, or Architecture 31 and 32. No prerequisite required of students in Liberal Arts and Science.

**23-24. Freehand Drawing.**—Charcoal drawing from the cast. Water color work. I, II; (2). Mr. BURGESS

*Prerequisite:* Architecture 32.

**25. Freehand Drawing.**—Principles underlying arrangement of form and color; rhythm and sequence; harmony and contrast. I; (2). Mr. BURGESS

*Prerequisite:* Architecture 23-24.

**26. Freehand Drawing.**—Charcoal, pen, pencil, and water color drawing from the cast and still life. Out-of-door sketching. II; (2). Mr. BURGESS

*Prerequisite:* Architecture 23-24-25.

**27. Freehand Drawing.**—Sketching from still life; study of proportions. I; (2).

Mr. BURGESS

*Prerequisite:* Architecture 25-26.



**28. Freehand Drawing.**—Water color; original decorative composition; out-of-door sketching. *II*; (2). Mr. BURGESS

*Prerequisite:* Architecture 27.

**31. Architectural and Freehand Drawing.**—Instruments, pen, pencil, and brush; lettering; shades and shadows; perspective. Charcoal drawing from the cast. *I*; (4).

Mr. McCAUGHEY, Mr. BURGESS and others

*Prerequisite:* Registration in General Engineering Drawing 2.

**32. Architectural and Freehand Drawing.**—Elements of architecture; walls, moldings, doors, windows, the Orders, vaults, roofs, stairs. Wash rendering, stereotomy, charcoal drawing from the cast. Lectures and sketching. *II*; (4).

Mr. McCAUGHEY, Mr. BURGESS, and others

*Prerequisite:* Architecture 31.

**33-34. Design.**—(Elementary.) Rendered order and sketch problems involving simple composition; library research in elements of composition. *I, II*; (3).

Assistant Professor ALLISON

*Prerequisite:* Architecture 31, 32.

**35-36. Design.**—(Intermediate.) Rendered plan and sketch problems; library research in plan and interior elements. *I, II*; (5).

Associate Professor CURTIS, Assistant Professor ALLISON

*Prerequisite:* Architecture 33-34.

**37. Design.**—(Advanced.) Original design. *I*; (7).

Associate Professor CURTIS, Assistant Professor ALLISON

*Prerequisite:* Architecture 35-36.

**38. Advanced Design or Thesis.**—Extended original problems in design. *II*; (7).

Associate Professor CURTIS

*Prerequisite:* Architecture 37.

**43. Working Drawings.**—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; detailing various parts on a large scale; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish; preparation of working drawings. *I*; (3).

Assistant Professor JONES

*Prerequisite:* General Engineering Drawing 2; Architecture 31, 32.

**44. Working Drawings.**—Materials for stone masonry; their uses, defects, qualities, and preparation; kinds of masonry and external finish; tools for stone cutting; brick masonry, its materials and bonds; terra cotta design, manufacture, and use; columns, beams, girders, and footings; joints and connections. Working drawings. *II*; (3).

Assistant Professor JONES

*Prerequisite:* General Engineering Drawing 2; Architecture 31, 32, 43.

**45. Graphic Statics.**—Elementary graphic statics; its application to trussed roofs, steel and masonry arches, domes. The graphical representation of reactions, bending moments, shear and deflection in beams. (For architects.) *I*; (3).

Assistant Professor PALMER, Mr. McANLIS

*Prerequisite:* Theoretical and Applied Mechanics 14, 15, 16.

**46. Roofs.**—Wooden and steel roofs; determination of section of members; design of joints; mill and steel skeleton construction. *II*; (3).

Assistant Professor PALMER, Mr. McANLIS

*Prerequisite:* Architecture 45.

**55. Building Sanitation.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in dwellings. (For architects.) Recitations; lectures; designs for special problems. *II*; (1). Assistant Professor JONES

*Prerequisite:* Physics 9a-9b, 10a-10b; Architecture 43, 44.

**59. Domestic Architecture.**—(Given in connection with Home Economics 2.) Lectures; criticism. *I*. Assistant Professor NEWCOMB and others

**60. Special Lectures.**—Special lectures on architectural subjects. (For architects.) *II*; (1). Associate Professor CURTIS and others

*Prerequisite:* Senior standing.

**65-66. Theory of Architecture.**—Influence of function on architectural form; plan and elevation; problem analysis. Lectures; research; exercises. *I, II*; (1). Mr. BURGESS

*Prerequisite:* Registration in Architecture 25, 26.

**67. Theory of Form.**—Principles underlying arrangement of form; architectural ornament and composition, proportion and balance. *II*; (2). Mr. BURGESS

*Prerequisite:* Senior standing in architecture.

**68. Specifications.**—General and special clauses and their arrangement; classifying material to facilitate writing specifications; practise in writing several sets; relations of the architect, owner, and builder; office organization; building ordinances; professional ethics. (For architects.) *I*; (3). Professor PROVINCE

*Prerequisite:* Senior standing in architecture.

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

### Courses for Graduates

Entrance on graduate work in architecture presupposes the full undergraduate course in that subject. Semi-weekly conferences are held and additional instruction given in all courses as may be required.

**101. Architectural Construction.**—Design of special structures. *I, II*; ( $\frac{1}{2}$  to 1 unit). Twice a week. Time to be arranged. Professor RICKER, Professor PROVINCE

**102. Sanitation of Buildings.**—Planning, design, and installation. *I*; ( $\frac{1}{4}$  to  $\frac{1}{2}$  unit). Twice a week. Time to be arranged. Professor RICKER

**103. Advanced Architectural Graphics.**—*I, II*; (1 to 2 units). Twice a week. Time to be arranged. Professor PROVINCE

**104. Architectural Design.**—Advanced course. *I, II*; (1 to 4 units). Twice a week. Time to be arranged. Associate Professor CURTIS

**105. Architectural Practise.**—Contracts, specifications, and office methods. *I*; ( $\frac{1}{4}$  to  $\frac{1}{2}$  unit). Twice a week. Time to be arranged. Professor PROVINCE

**106. Architectural History.**—Special research. *I, II*; ( $\frac{1}{2}$  to 2 units). Twice a week. Time to be arranged. Professor RICKER

### ARCHITECTURAL ENGINEERING

**33. Architectural Drawing.**—Lettering; elements of architecture; walls, moldings, doors, windows, shades and shadows, perspective, the Orders, vaults, roofs, stairs; wash rendering, stereotomy, charcoal, drawing from the cast. Lectures and sketching. *I*; (3). Mr. O'DONNELL

*Prerequisite:* General Engineering Drawing 1, 2.

**34. Design.**—(Elementary.) Rendered order and sketch problems; library research. *II*; (3). Mr. O'DONNELL

*Prerequisite:* Architectural Engineering 33.

**35-36. Design.**—(Intermediate.) Rendered plan and sketch problems; library research. *I, II*; (3). Mr. O'DONNELL

*Prerequisite:* Architectural Engineering 33, 34.

**43. Working Drawings.**—The growth, cutting, seasoning, working, and finishing of woods; structural and decorative properties; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish; preparation of working drawings. (For architectural engineers.) *I*; (2). Assistant Professor JONES

*Prerequisite:* Architectural Engineering 31; General Engineering Drawing 2.

**44. Working Drawings.**—Materials for stone masonry; their uses, defects, qualities, and preparation; kinds of masonry and external finish; tools for stone cutting; brick masonry; bonds; terra cotta design, manufacture, and use; columns, beams, girders; joints and connections; preparation of working drawings. *II*; (2). Assistant Professor JONES

*Prerequisite:* Architectural Engineering 33, 43; General Engineering Drawing 1, 2.

**45. Graphic Statics.**—Elements, and applications to forces; beams under fixed and moving loads. *I*; (3). Assistant Professor PALMER, Mr. McANLIS

*Prerequisite:* Theoretical and Applied Mechanics 20; registration in Theoretical and Applied Mechanics 25.

**46. Advanced Graphic Statics.**—The analysis of masonry arches, domes, and vaults large and unusual forms of roof trusses. *II*; (3). Assistant Professor PALMER, Mr. McANLIS

*Prerequisite:* Architectural Engineering 45.

**47. Architectural Engineering.**—Design and working drawings of trusses, members and joints, plate girders, chimneys; investigations of wind bracing. *I*; (5). Assistant Professor PALMER

*Prerequisite:* Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46.

**48. Architectural Engineering.**—Design and detail of footings; investigation of framed structures; working drawings. *II*; (5). Assistant Professor PALMER

*Prerequisite:* Architectural Engineering 47.

**57. Fireproof Construction.**—Principles and design of fireproof construction; the advantages of each type. *I*; (2). Assistant Professor PALMER

*Prerequisite:* Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46; registration in Architectural Engineering 47.

**58. Fireproof Construction.**—(Continuation of first semester's work.) Details and working drawings. *II*; (2). Assistant Professor PALMER

*Prerequisite:* Architectural Engineering 47, 57; registration in Architectural Engineering 46.

**67. Building Sanitation.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in all types of buildings. (For architectural engineers.) Recitations, lectures and quizzes; designs for special problems. *II*; (2). Assistant Professor JONES

*Prerequisite:* Physics 1a-3a, 1b-3b, Architectural Engineering 43 and 44.

**68. Estimates and Specifications.**—Methods of estimating, illustrated by problems; a study of specifications, their general and special clauses, relations of architect, owner, and builder. (For architectural engineers.) *II*; (4). Professor PROVINCE

*Prerequisite:* Senior standing in architectural engineering.

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

## ART AND DESIGN

EDWARD JOHN LAKE, B.S., *Assistant Professor*

LORADO TAFT, M.L., *Non-resident Professor of Art*

CHARLES EARL BRADBURY, B.P., *Assistant Professor*

MARY MINERVA WETMORE, *Instructor*

EGBERT E NEARPASS, JR., B.P., *Instructor*

**1. Freshand Drawing.**—Drawing in charcoal and pencil; perspective; light, shadows, shade, and reflections in monochrome; graphical representation. *I* or *II*; (3).

Assistant Professor LAKE, Assistant Professor BRADBURY, Mr. NEARPASS

**2. Advanced Freehand Drawing.**—Drawing in tone; values, composition, and technical expression. Outdoor sketching. *II*; (3). Assistant Professor BRADBURY

*Prerequisite:* Art and Design 1.

**3a-3b. Anatomical Representation.**—Drawing from plaster models and from life; proportion, construction, composition and action in the representation of the human figure. *I, II*; (3). Assistant Professor BRADBURY

*Prerequisite:* Art and Design 1.

**4a-4b. Water Color Painting.**—Still-life; flowers and outdoor sketching with application to pictorial and decorative art. *I, II*; (3). Miss WETMORE

*Prerequisite:* Art and Design 1.

**5a-5b. Drawing from Life.**—Monochrome, with application to pictorial and decorative purposes. *I, II*; (3). Miss WETMORE

*Prerequisite:* Art and Design 1, 3a.

**6a-6b. Portrait in Oil Colors.**—Painting in oil colors from costumed models; portrait and character study. *I, II*; (3). Miss WETMORE

*Prerequisite:* Art and Design 1, 3a, 5a.

**7a-7b. Still-life in Oil Colors.**—Still-life; flowers and outdoor sketching, with application to pictorial and decorative art. *I, II*; (3). Miss WETMORE

*Prerequisite:* Art and Design 1, 2.

**8a-8b. Modeling.**—Clay modeling of anatomical and decorative forms; plaster molds and models; sculptural art. *I, II*; (3). Assistant Professor LAKE

*Prerequisite:* Art and Design 1.

**10. Sketching.**—Practise in pen, pencil, wash, charcoal, pastel; requirements for reproduction; technical methods in sketching from still-life, landscape, and figure. *II*; (1). Assistant Professor BRADBURY

*Prerequisite:* Art and Design 1.

**12. Design.**—Theory of pure design and the effect of material on execution; fitness of various forms of media for different sorts of design; space division and space relations; color schemes and exercises; conventionalization of natural forms for various functions; practise in execution. *I* or *II*; (2). Assistant Professor LAKE

*Prerequisite:* Art and Design 1.

**14. Applied Design.**—(Practise). Organic design as applied in crafts or in commercial art as posters, bookplates, book-covers. *I* or *II*; (3). Assistant Professor FORBES

*Prerequisite:* Art and Design 1, 12.

**19. History of Fine Arts.**—The periods and styles of the arts of architecture, sculpture, and painting previous to the Italian Renaissance. *I*; (2). Assistant Professor LAKE

*Prerequisite:* One year of college work.

**20. History of Fine Arts.**—The periods and styles of the arts of architecture, sculpture, and painting of the Italian Renaissance and to the present time. *II*; (2).

Assistant Professor LAKE

*Prerequisite:* One year of college work.

### Summer Session Courses

**S1. Elementary Art.**—Form drawing from still-life, cast, and nature; outline and shading in charcoal; lectures on perspective. (3). Assistant Professor LAKE

**S9. Art for the Common Schools.**—The planning and execution of work in common school art study; design; blackboard drawing. Lectures on organization, equipment, and the administrative side of the supervisors work. (1). Assistant Professor LAKE

**S20. History of Fine Arts.**—(2). Assistant Professor LAKE

## ASSYRIAN

(See ORIENTAL LANGUAGES AND LITERATURE.)

## ASTRONOMY

JOEL STEBBINS, Ph.D., *Professor*

No major for undergraduates is offered in astronomy. Students may well make mathematics or physics their major, and take Astronomy 7, 8, 14, and 15 as a minor.

Students ordinarily begin with course 1, but those who have had laboratory physics may elect course 2.

### Courses for Undergraduates

**1. Elementary Astronomy.**—Lectures; recitations; one evening a week at the observatory. *I*; (3). Professor STEBBINS

*Prerequisite:* Mathematics 4.

**2. General Astronomy.**—Continuation of course 1 with more observational practise; two evenings a week at the observatory. *II*; (3). Professor STEBBINS

*Prerequisite:* Astronomy 1, or Physics 3a or 8a.

**6. Navigation.**—Piloting, dead reckoning, latitude and longitude by astronomical observations; use of compass and sextant. *II*; (3). Professor STEBBINS

*Prerequisite:* Mathematics 4, sophomore standing.

### For Advanced Undergraduates and Graduates

**[7-8. Theoretical Astronomy.**—Celestial mechanics; theory of orbits; perturbations. *I, II*; (3). Not given 1919-20. Professor STEBBINS

*Prerequisite:* Mathematics 9.]

**14. Observational Astronomy.**—The working methods of an astronomical observatory; individual problems. *II*; (3). Professor STEBBINS

*Prerequisite:* Astronomy 15.

[15. **Geodetic Astronomy.**—The sextant, transit, and zenith telescope; methods similar to those of the United States Coast Survey. *I*; (3). Not given 1919–20.

Professor STEBBINS

*Prerequisite:* Mathematics 7.]

### Courses for Graduates

[101. **Seminar.**—*Three times a week; I, II; (1 unit).* Not given 1919–20.

Professor STEBBINS]

102. **Stellar Astronomy.**—Orbits of binary stars; variable stars; theoretical photometry. *Three times a week. I, II; (1 unit).*

Professor STEBBINS

## ATHLETIC COACHING AND PHYSICAL EDUCATION

GEORGE A HUFF, B.S., *Director*

JOHN LORENZO GRIFFITH, A.B., *Assistant Professor*

GEORGE CLARK, B.S., *Associate*

HARRY LOVERING GILL, *Associate*

RALPH ROBERT JONES, *Associate*

ROBERT CARL ZUPPKE, Ph.B., *Associate*

EDWIN JOHN MANLEY, *Instructor*

### Introductory Courses

14. **Hygiene.**—Lighting, heating, and ventilating. Personal hygiene; sleep, diet, and bathing. Sex hygiene. *II*; (3).

Dr. BEARD

20. **Field and Track Athletics.**—Starting, springing, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer throw, and discus; practical talks on methods of preparing contestants for different athletic events; adaptation to individual peculiarities; rules for competition; study of physical condition, including endurance, speed and fatigue; for the promotion, management, and officiating of games and meets. *I*; (2).

Mr. GILL

21. **Field and Track Athletics.**—Continuation of Athletic Coaching 20. *II*; (2).

Mr. GILL

*Prerequisite:* Athletic Coaching 20.

30. **Football.**—Practical and fundamental football taught in such a way that each man will become acquainted with all of the positions on the team. Special stress on punting, place kicking, drop kicking, goal kicking, kick-off, tackling, blocking and interference. Offensive tactics predominate. *I*; (2).

Mr. ZUPPKE, Mr. CLARK

40. **Basketball.**—The fundamentals of the game, such as passing, goal throwing, dribbling, turns, stops, team plays, and actual competition. *I*; (2).

Mr. JONES, Mr. CLARK

50. **Baseball.**—Theory and practise in batting, fielding, base running and pitching. Special attention to fundamentals; team work; coaching methods; study of the rules, physical condition, methods of indoor practise. *II*; (3).

Mr. HUFF, Mr. CLARK

60. **Swimming.**—Elementary swimming and diving. Breast stroke, crawl stroke, back stroke, etc. Method of rescuing and resuscitation. *I*; (2).

Mr. MANLEY

## ATHLETIC COACHING

3. **Free Exercises.**—With and without hand apparatus, including gymnastic marching tactics. Personal proficiency in execution and exactness of form. Progression and value of system of these exercises. Practise teaching. [5 hours practise, 2 hours theory] *I*; (4).

**4. Elementary Apparatus.**—Simple exercises on horizontal bar, parallel bar, horse, rings, mats, etc., to be used in class or individual form. Progression and value of system of these exercises. Personal proficiency and exactness of form. Practise teaching. [3 hours practise, 1 hour theory]. *II*; (2).

*Prerequisite:* Athletic Coaching 3.

**5. Physical Diagnosis.**—Elementary physical diagnosis. *II*; (2).

*Prerequisite:* Athletic Coaching 9, 12, 13, 14.

**6. Group Games and Mass Athletics.**—Group games of low organization and classification of all games. Adapted to meet the need of the playground, schoolroom, and gymnasium. Mass athletics includes athletic competitions entered into by large numbers of contestants divided into teams. [3 hours practise, 1 hour theory]. *I*; (2).

**7. Boxing.**—Fundamentals for class and individual work. Personal proficiency. [4½ hours theory and practise for ½ semester]. *I*.

**8. Wrestling.**—Fundamentals for class and individual work. Personal proficiency. [4½ hours theory and practise for ½ semester]. *I*.

**9. Elementary Orthopedics.**—Deformities, their causes, prevention, and treatment. Corrective gymnastics, theoretical, and practical consideration. *I*; (2).

*Prerequisite:* Athletic Coaching 12, 13, 14.

**10. Schoolroom Gymnastics.**—Elective. Gymnastics suited to the schoolroom. *I*; (1).

*Prerequisite:* Athletic Coaching 3.

**12. General Physiology.**—Physiology of circulation, respiration, digestion, excretion, nerve, muscle, and special senses. *I*; (4).

**13. Anatomy.**—Essentials as related to physical education. Study of the outline and relations of the various regions, systems and organs of the body. *II*; (3).

*Prerequisite:* Athletic Coaching 12.

**14. Hygiene.**—A general consideration of the subject as applied to the individual, the home, school and community. *II*; (5).

**15. Playground Instruction.**—Philosophy of play; organization and equipment of the playground; play and games to meet the requirements of children of all ages; simple team, group, and competitive games, and folk dancing. [3 hours practise, 2 hours theory].

*Prerequisite:* Athletic Coaching 6.

**16. Training and First Aid.**—Emergency treatment of common injuries. Theories of training, massage, and treatment of sprains, bruises, etc. *II*; (2).

*Prerequisites:* Athletic Coaching 12, 13, and 14.

**17. Organization and Administration of Physical Education.**—Problems in organization and administration in physical education and athletics. Intercollegiate, intramural, and mass athletics. Sportsmanship and ethics. *I*; (3).

*Prerequisite:* 5 hours credit in Athletic Coaching.

**18. Swedish Gymnastics.**—Elective. *I*; (1).

*Prerequisite:* Athletic Coaching 3 and 4.

**20. Field and Track Athletics.**—Instruction and practical demonstration in starting, springing, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer and discus throwing. Practical talks on the methods of preparing contestants for different athletic events; adaptation to individual peculiarities; rules of competition; study

of physical condition, including endurance, speed, and fatigue, for the promotion, management, and officiating of games and meets. [3 hours practise, 1 hour theory]. *I*; (2).

**21. Field and Track Athletics.**—Continuation of Athletic Coaching, 20. [3 hours practise, 1 hour theory]. *II*; (2).

*Prerequisite:* Athletic Coaching 20.

**22. Field and Track Athletics.**—Elective. Continuation of Athletic Coaching, 21. *II*; (2).

*Prerequisite:* Athletic Coaching 20, 21.

**30. Football.**—Practical and fundamental football taught in such a way that each student will become acquainted with all of the positions on the team. Special stress on punting, place kicking, drop kicking, goal kicking, kick-off, tackling, blocking, and interference. Offensive tactics predominate. 10 hours first half semester. *I*; (2).

**31. Football.**—Practical and fundamental football. The system taught by the various coaches. Defensive tactics predominate. The forward pass, trick plays, and the necessary defense to meet these plays. [10 hours first half semester]. *I*; (2).

*Prerequisite:* Athletic Coaching 30.

**32. Football.**—The theory and art of coaching football. Study of the weaknesses and strong points of various styles of offense and defense used in different parts of the country. Special stress on generalship, signal system, scouting, and rules. The game will be studied from the coach's point of view. A lecture course. *II*; (2).

*Prerequisite:* Athletic Coaching 30, 31.

**33. Football.**—Elective. *I*; (2).

*Prerequisite:* Athletic Coaching 30, 31.

**40. Basketball.**—The fundamentals of the game, such as passing, goal throwing, dribbling, turns, stops, team play, and actual competition. [10 hours second half semester]. *I*; (2).

**41. Basketball.**—The game will be taken up from the coaching view-point. The theory of coaching, handling of men, different styles of offense and defense used by the leading coaches, and experience in coaching. [10 hours second half semester]. *II*; (2).

*Prerequisite:* Athletic Coaching 40.

**42. Basketball.**—Elective. Continuation of Athletic Coaching 41. *I*; (2).

*Prerequisite:* Athletic Coaching 40 and 41.

**50. Baseball.**—Theory and practise in batting, fielding, base-running and pitching. Special attention to fundamentals; teamwork, coaching methods, study of the rules, physical condition, methods of indoor practise. Theory and practise, 7 hours. *I*; (4).

**51. Baseball.**—Continuation of Athletic Coaching 50. Elective. *II*; (2).

*Prerequisite:* Athletic Coaching 50.

**60. Swimming.**—Elementary swimming and diving. Breast stroke, crawl stroke, back stroke, etc.; method of rescuing and resuscitation. 6 hours practise. *II*; (2).

**61. Swimming.**—(Elective). Fancy diving, speed strokes, practise in conducting swimming meets, judging, etc. Instruction in the coaching of aquatic sports and water games. 3 hours practise. *I*; (1).

*Prerequisite:* Athletic Coaching 60.



## PHYSICAL EDUCATION

**50. Track and Field Coaching.**—Theory and practise of coaching track and field athletics. Intended to give instruction in coaching by means of practical coaching of the various intramural teams of the University, under competent supervision. [6 hours practise]. *II*; (2).

*Prerequisites:* Athletic Coaching 20 and 21.

**50. Football Coaching.**—Organization and coaching of intramural teams of the University. Practical application of the first three years' work, supervised by an experienced coach. [12 hours practise first half semester]. *I*.

*Prerequisites:* Athletic Coaching 30, 31, and 32.

**50. Basketball Coaching.**—Instruction in coaching by means of coaching the intramural teams of the University, under competent supervision. [12 hours practise second half semester]. *I*.

*Prerequisites:* Athletic Coaching 40 and 41.

**50. Baseball Coaching.**—Instruction by assigning each student to act as coach of an intramural team of the University, under competent supervision. [6 hours practise]. *II*; (2).

*Prerequisites:* Athletic Coaching 50.

## Summer Session Courses

**S10. Baseball.**—Theory and practise in batting; base running; proper methods of fielding each position; team work and coaching methods; study of the rules; physical condition; methods of indoor practise. Lectures and practical work. (1½).

Director HUFF

**S11. Track and Field Athletics.**—Instruction and practical demonstration in starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer throw, and discus; practical talks on methods of preparing contests for different athletic events; adaptations to individual peculiarities; rules of competition; study of physical condition, including endurance, speed fatigue, and all means training for condition; work assigned for the promotion, management, and officiating of games and meets. Lectures and practical work. (1½).

Mr. GILL

**S12. Basketball.**—Instructions will be given in basketball with the idea of fitting men to coach. The course will cover passing, goal throwing, dribbling, team play, how to condition a team, and the different styles of play used by the leading coaches. Lectures and practical work. (1½).

Mr. JONES

**S13. Football.**—The theoretical work will take up the rules from the standpoint of coach, players, and officials; the several styles of offense and defense with consideration of their special strengths and weaknesses; generalship and strategy. The practical work will include: training, conditioning, and player's equipment; punting, drop kicking, place kicking, kick off, and forward passing; tackling dummy and charging sled; special drills for linemen, ends, and backs; following the ball, interference, and team work; fundamental plays, freak plays, and signal systems. Lectures and practical work. (1½).

Mr. ZUPPKE

**S14. Training.**—Theories of training, massage, treatment of sprains, bruises, etc.; bandaging and first aid. Lectures and practical work. This course will be taken by all who take S10, S11, S12, or S13. (½).

Mr. JONES

**S15. Calisthenics.**—Typical lessons for corrective and responsive work. Instruction will be given in free exercises. The course will cover the use of wands, Indian clubs, and dumb-bells.

(a) Practise and instruction by demonstration and command. Emphasis to be laid on progression and exactness of execution.

(b) Theoretical work. Practise teaching. ( $\frac{1}{2}$ ).

Mr. SCHUETTNER

**S17. Elementary Gymnastics.**—Theory and practise in elementary exercises on heavy apparatus, mats, horse, horizontal bar, rings, and parallel bars. Accuracy of form and execution emphasized. The chief purpose is to teach a large variety of rapid mass work adapted to the average class. ( $\frac{1}{2}$ ).

Mr. SCHUETTNER

**S18. Intermediate Heavy Gymnastics.**—More advanced work along the same lines as course S17. The laws of gymnastic progression will be emphasized. Nomenclature and analysis of exercises, and the use of heavy apparatus. ( $\frac{1}{2}$ ).

Mr. SCHUETTNER

**S19. Advanced Gymnastics.**—Heavy apparatus. Advanced exercises on heavy apparatus; nomenclature; skill, form, and accuracy of execution emphasized. ( $\frac{1}{2}$ ).

Mr. SCHUETTNER

**S21. Gymnastic Dancing.**—(a) Elements of steps, simple steps, and series of dancing steps to be given to classes in single file, pairs, and in open order. (b) Practise teaching and more advanced steps. ( $\frac{1}{2}$ ).

Mr. SCHUETTNER

**S23. School Room Gymnastics.**—The possibilities of exercise for elementary grades and high school will be shown. Exercises suitable for schoolroom. Practise teaching. ( $\frac{1}{2}$ ).

Mr. SCHUETTNER

## BACTERIOLOGY

(A Division of the Department of BOTANY)

FRED WILBUR TANNER, Ph.D., *Assistant Professor*

RUTH SCOVELL FUNK, B.S., *Assistant*

LETHE ELEANORA MORRISON, A.B., *Assistant*

NOTE—No major is offered for the present in bacteriology for undergraduates.

**2. Sanitary Science.**—Lectures, assigned readings, demonstrations, and recitations on the relation of bacteria, yeasts, and molds, to sanitation, agriculture, home economics, and communicable diseases. (For those who wish an insight into matters such as sterilization, disinfection, water and sewage treatment, food hygiene and poisoning, communicable diseases, federal, state, and local health authorities, etc.) (May not be counted for satisfaction of group requirements in the College of Liberal Arts and Sciences.) *I*; (2).

Assistant Professor TANNER

**5. Introductory Bacteriology.**—Morphology and physiology of bacteriology and related microorganisms; technic of cultivation and observation. *I* or *II*; (5).

Assistant Professor TANNER and Assistants

*Prerequisite:* Chemistry 2a.

**6. Bacteriology for Sanitary Engineers.**—Bacteriological and microscopical methods applied to the examination of water and sewage. Theories and methods of filtration, sterilization, and filter control. *I*; ( $2\frac{1}{2}$ ).

Assistant Professor TANNER

*Prerequisite:* Chemistry 10b.

### Courses for Advanced Undergraduates and Graduates

**8. Applied Bacteriology.**—Decay of organic matter in nature; soil and sewage bacteria; water bacteria; pathogenic bacteria. Essentially a course in food bacteriology. Laboratory; lectures; discussions; assigned readings and reports. *II*; (5).

Assistant Professor TANNER and assistants

*Prerequisite:* Junior standing; Bacteriology 5 or its equivalent; and the consent of the instructor.

**18a-18b. Journal Meeting.**—Required of all students who major in general bacteriology. *I, II*; (1).

Assistant Professor TANNER

*Prerequisite:* Junior standing; Bacteriology 5.

**20. General Bacteriology.**—(For advanced undergraduate students, and graduate students who do not major in bacteriology.) Laboratory methods, technic of cultivation and observation and study of biochemical reactions. Laboratory; lectures; assigned readings; reports from Lafar's *Handbuch der technischen Mykologie*, and Kruse, *Allgemeine Mikrobiologie*. *I*; (5).

Assistant Professor TANNER

*Prerequisite:* Two years of college chemistry; senior standing.

**26. Pathological Bacteriology.**—Cultural and morphological characteristics of disease-producing organisms. Theories of immunity and serum reactions. Routine diagnostic procedure. *I*; (3).

Assistant Professor TANNER, Miss FUNK

*Prerequisite:* Bacteriology 1 or 5; junior standing.

### Courses for Graduates

The work outlined below is open only to graduate students who have had at least one year's work in bacteriology and satisfactory training in chemistry.

**103. Physiology of Bacteria.**—Fermentation; growth and death of bacteria. Lectures; assigned readings and reports. *I*; (1 unit).

Assistant Professor TANNER

**105. Classification of Bacteria.**—Variability of species; characters; mutations; life cycles; standard and biometrical classifications. *II*; (1 unit).

Assistant Professor TANNER

**107. Research in Bacteriology.**—This course is designed especially for students who are taking a major in bacteriology either for the doctor's degree or the master's degree. Thesis work may be taken in any of the fields in bacteriology indicated below. *Once a week; I, II; (½ to 4 units)*

General Bacteriology.....	Assistant Professor TANNER
Dairy Bacteriology.....	Professor HARDING
Pathogenic Bacteriology.....	Assistant Professor TANNER
Plant Pathology.....	Professor STEVENS
Water and Sewage Bacteriology.....	Professor BARTOW

### BANKING

(See ECONOMICS)

### BIOLOGY

(See BOTANY, ENTOMOLOGY, PHYSIOLOGY, and ZOOLOGY)

## BOTANY

(See also BACTERIOLOGY)

WILLIAM TRELEASE, D.Sc., LL.D., *Professor*  
 CHARLES FREDERICK HOTTES, Ph.D., *Professor*  
 FRANK LINCOLN STEVENS, Ph.D., *Professor*  
 WALTER BYRON MCDougALL, Ph.D., *Assistant Professor*  
 FRED WILBUR TANNER, Ph.D., *Assistant Professor (Bacteriology)*  
 STELLA MARY HAGUE, Ph.D., *Instructor*  
 AARON RAYMOND KIENHOLZ, B.S., *Research Assistant*  
 MARY EMMA RENICH, A.M., *Assistant*  
 RUTH SCOVELL FUNK, B.S., *Assistant (Bacteriology)*  
 HELEN ANASTASIA MCGINNIS, A.B., *Assistant*  
 ALFRED CHARLES VOGELE, B.S., *Assistant*  
 CHARLEY LYMAN PORTER, B.S., A.B., *Assistant*  
 LETHE ELEANORA MORRISON, A.B., *Assistant (Bacteriology)*  
 FREDERICK FRANCIS WEINARD, A.M., *Assistant*  
 WALTER LEROY BLAIN, A.B., *Assistant*  
 PAUL JONES BYRD, A.B., *Assistant*  
 EDWIN EARL HONEY, B.S., *Assistant*  
 ELBA EMANUEL WATSON, A.M., *Graduate Assistant*

**Major:** 20 hours exclusive of Botany 1, and 4, preferably made up of courses grouped along one of six lines, according to the suggestions given below.

**Minor:** 20 hours chosen from chemistry, entomology (exclusive of 1a and 1b), geology, physics, physiology, and zoology, in consultation with the department of botany. At least eight hours must be offered in one subject.

Courses offered are of four types; the first intended to meet the needs of beginners; the second laying a foundation for methods of accuracy in observation, manipulation, and experimentation through the study of some fundamentally important subdivision of the science; the third giving practise in methods of investigation by the study of advanced problems varied to suit the needs and interests of the student; and the fourth teaching independent research by means of thesis subjects leading to the discovery of new facts or laws.

The work of any semester may be credited separately except when a problem is left incomplete in one of the courses open to graduates.

For the convenience of undergraduates in the College of Liberal Arts and Sciences who elect major work in botany the following combinations of courses are suggested:—(a) General; 2a, 4a, 23, 27a, and 27b; (b) Specializing in morphology; 2a, 2b, 3a, 4a or 24, and 29; (c) Specializing in pathology; 2a or 3a, 7a, 7b, 28a or 28b, 4a, or 17a-17b; (d) Specializing in physiology; 3a, 27a-27b, 9a or 9b; (e) Specializing in taxonomy; 2a, 4a, 16a-16b, or 17a-17b, or 26, or 28a-28b; (f) Specializing in ecology; 4a, 23, 24, 25a-25b, and 27a.

Students taking botany as a foundation for agronomy or horticulture are advised to select courses 27a, 4a, 7a, and advanced work on some special topic or topics under courses 7b, 9, 17a-17b, or 22b. Students who expect to teach botany are advised to elect 2a, 4a, 23, 27a, and advanced work in one or more of the special courses 9a-9b, 16a-16b, 17a-17b, or 25a-25b.

The prerequisite for major work in botany in the Graduate School is 20 semester hours in botany or 15 hours in botany plus 5 hours in zoology or entomology.

## Courses for Undergraduates

**1. General Botany.**—The structure, physiology, natural history, and uses of plants. Lectures, quiz, laboratory. *I* or *II*; (5).

Professor TRELEASE and Assistant Professor McDUGALL, and assistants

**2a. Morphology of Thallophytes.**—Comparative laboratory study of types of the lower plants.

This and the following course are intended to give personal acquaintance with the vegetable kingdom through the study of living types selected so as to present in natural sequence the increasing complexity of structure and function which marks evolutionary development. *I*; (5).

Dr. HAGUE

*Prerequisite:* Botany 1.

**2b. Morphology of Cormophytes.**—Comparative laboratory study of selected types of the higher-plants. *II*; (5).

Dr. HAGUE

*Prerequisite:* Botany 1.

**3a. Plant Anatomy, Histology, and Technic.**—The foundation of an exact knowledge of plant structure, especially of protoplasts and their parts and of the behavior and relations of the nucleus; the best methods of fixing, sectioning, staining, and examining tissues, modeling from serial sections, and photo-micrography. *II*; (5).

Professor HOTTES

*Prerequisite:* Botany 1.

**4. The Local Flora.**—Morphology, identification, and classification of wild plants. A laboratory and field course for students desiring personal acquaintance with the plants of Illinois, and especially for those qualifying as teachers in the public schools. *II*; (3).

Dr. HAGUE

*Prerequisite:* Entrance botany or its equivalent.

**4a. Taxonomy of Cormophytes.**—Structure, identification, and classification of higher plants. Laboratory studies chiefly of flowering plants. *II*; (5).

Professor TRELEASE

*Prerequisite:* Botany 1.

**4d. Trees and Shrubs of the Campus.**—The woody plants most used for decorative purposes. *I*; (3).

Professor TRELEASE

*Prerequisite:* Botany 1.

**7a. Plant Pathology.**—Casual agents, symptoms, diagnosis, and treatment. *I*; (5).

Professor STEVENS

*Prerequisite:* Botany 1.

**23. Plant Ecology.**—The life of plants in their natural habitats, in relation to environment, to animals, and to each other. Lectures; laboratory; field work. *I*; (3).

Assistant Professor McDUGALL

*Prerequisite:* Botany 1.

**24. Taxonomy and Ecology of the Higher Fungi.**—Structure, identification, classification, and ecological relations. Special attention is given to edible and poisonous mushrooms. Lectures; laboratory; field work. *II*; (3).

Assistant Professor McDUGALL

*Prerequisite:* Botany 1.

**27a. Plant Physiology.**—The absorption of materials from the external world and their transformation within the organism; the production and use of food. *I*; (5).

Professor HOTTES

*Prerequisite:* Botany 1.

**27b. Plant Physiology.**—The response of the plant to external stimuli. *II*; (3).

Professor HOTTES

*Prerequisite:* Botany 1.

**30. Methods of Teaching.**—Participation in elementary laboratory instruction and in conferences of department staff; seminar. *I*; (2).

Professor TRELEASE and Assistant Professor McDUGALL

*Prerequisite:* 15 hours of botany; senior standing.

### Courses for Advanced Undergraduates and Graduates

Students who take courses open for credit to graduates are advised to register also for Botany 10a-10b, the weekly meeting devoted to current literature in botany, which is obligatory for candidates for an advanced degree with botany as a major subject.

Candidates for advanced degrees in botany must offer for admission to the graduate courses 20 hours of college work in botany or 15 hours in botany plus 5 hours in zoology or entomology.

Graduate students who elect botany for minor credit must meet the prerequisite for courses which they take for graduate credit.

**7b. Methods in the Study of Fungi.**—Methods of isolation, cultivation, and inoculation of fungi and bacteria. *II*; (5).

Professor STEVENS

*Prerequisite:* 10 hours of botany, including Botany 7a; junior standing.

**9a-9b. Plant Anatomy or Physiology.**—Problems for those specializing either in anatomy with technique, or in physiology, or in the application of these to plant breeding, crop production, and forestry. *I, II*; (3 to 5).<sup>1</sup>

Professor HOTTES

*Prerequisite:* 10 hours of botany, including Botany 27a or 27b; junior standing.

**10a-10b. Current Botanical Literature.**—A weekly review covering the field of botany; supplementary to the various seminar conferences. *I, II*; (1).

The Staff

*Prerequisite:* Concurrent taking of some course in botany open for graduate credit.

**14a-14b. Heredity, Variation, Evolution.**—Cells and members of plants; adaptation and changes; mechanism of heredity; evolution. *I, II*; (2).

Professor HOTTES

*Prerequisite:* 10 hours of botany, including Botany 3a; junior standing.

**16b. Taxonomy and Morphology of Algae and Bryophytes.**—Advanced practise on selected groups. *II*; (3 to 5).<sup>1</sup>

Dr. HAGUE

*Prerequisite:* 10 hours of botany, including 2a or 4b; junior standing. For graduate students in chemistry, 5 hours of biology and 10 hours of physical science, including manipulation of instruments, or 15 hours of physical science.

**17a-17b. Taxonomy of Cormophytes.**—Advanced practise on selected taxonomic or economic groups; genera or families of Illinois plants, or plants economically important as weeds, forest resources, adjuncts to medicine, farm, orchard, or garden crops, or as the basis of floriculture, landscape architecture, street shading, or other decorative planting. *I, II*; (3 to 5).<sup>1</sup>

Professor TRELEASE

*Prerequisite:* 10 hours of botany, including 4a; junior standing.

**22a. Morbid Histology.**—The parasites of plant tissues and their histology in condition of disease. *I*; (3 to 5).<sup>1</sup>

Professor STEVENS

*Prerequisite:* Botany 3a and 7a; junior standing.

**22b. Groups of Fungi and Crop Disease.**—*II*; (3 to 5).<sup>1</sup>

Professor STEVENS

*Prerequisite:* 10 hours of botany, including 7a; junior standing.

**25a-25b. Plant Ecology.**—Advanced studies in the ecology of plants or of plant communities. *I, II*; (3 to 5).<sup>1</sup>

Assistant Professor McDUGALL

*Prerequisite:* Botany 23 and 27a; junior standing.

**28a-28b. Taxonomy of Economic Fungi.**—Advanced practise on selected groups of parasitic fungi. *I, II*; (3 to 5).<sup>1</sup>

Professor STEVENS

*Prerequisite:* 10 hours of botany, including 7a; junior standing.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5 but 2, or 3, or 4, or 5.

- 29a. **Comparative Morphology of Pteridophytes, Gymnosperms, and Angiosperms—**  
*I; (3).* Dr. HAGUE

*Prerequisite:* 10 hours of botany, including 7a; junior standing.

#### Courses for Graduates

101. **Individual Plant Development.**—The influence of external agents on the cell. Special subjects for investigation are assigned on consultation. Reports and discussions of current literature and research results. *I, II; (½ to 2 units).* Professor HOTTES

102. **Physiology.**—The effects of external stimuli on growth and movement. Special subjects for investigation are assigned on consultation. Reports and discussions of current literature and research results. *I, II; (½ to 2 units).* Professor HOTTES

104. **Mycology.**—Fungi. Individual assignments of subjects and problems in field and laboratory. *I, II; (½ to 2 units).* Professor STEVENS

106. **Plant Pathology.**—Diseases of plants, and disease agents. Special subjects are assigned upon consultation. *I, II; (½ to 2 units).* Professor STEVENS

107. **History of Botany.**—A conference course with lectures and reading. *I; (½ unit).* Professor TRELEASE

108. **Taxonomy.**—Monographic studies of critical groups. *I, II; (½ to 2 units).* Professor TRELEASE

109. **Ecology.**—The interrelations of plants with their environment. Individual subjects for investigation. *I, II; (½ to 2 units).* Assistant Professor McDOUGALL

#### Summer Session Courses

(For description of courses, wholly or in part, see corresponding numbers in the description of courses in the regular session).

#### Courses for Undergraduates

S1. **General Botany**—(4). Professor TRELEASE, Dr. HAGUE and Miss RENICH

S2a. **Morphology of Thallophytes**—(4). Dr. HAGUE

S4d. **Trees and Shrubs**—(2). Professor TRELEASE

S30. **Methods of Teaching**—(2). Professor TRELEASE and Dr. HAGUE

#### Courses for Advanced Undergraduates and Graduates

S16b. **Taxonomy and Morphology of Algae and Bryophytes**—(2 to 4). Dr. HAGUE

S17. **Taxonomy of Cormophytes**—(2 to 4). Professor TRELEASE

#### Course for Graduates

S108. **Taxonomy**—(½ to 2 units). Professor TRELEASE

### BUSINESS LAW

(See BUSINESS ORGANIZATION AND OPERATION.)

### BUSINESS ORGANIZATION AND OPERATION

(INCLUDING ACCOUNTANCY AND BUSINESS LAW)

HIRAM THOMPSON SCOVILL, A.B., C.P.A., *Professor*

ROBERT ENOCH HIERONYMUS, A.M., LL.D., *Community Adviser; lecturer on commercial and civic organizations*

LLOYD MOREY, A.B., C.P.A., *Assistant Professor*

EDWARD JOSEPH FILBEY, Ph.D., C.P.A., *Assistant Professor*

FREDERIC ARTHUR RUSSELL, Ph.D., *Assistant Professor*  
 ANANIAS CHARLES LITTLETON, A.M., C.P.A., *Associate*  
 CHARLES LE DEUC, LL.B., Ph.D., B.A.M., *Instructor*  
 ALTA GWINN SAUNDERS, A.M., *Instructor*  
 HENRY HEATON BAILY, Ph.B., *Instructor*  
 RALPH STANLEY BAUER, A.M., J.D., *Instructor*  
 ESTHER CLEMENTS, B.S., *Assistant*  
 HANS PETER GREISON, A.B., *Assistant*  
 RALPH EDWARD SPERRY, A.B., *Assistant*  
 VERNE RUSSELL MCDUGLE, A.B., *Assistant*  
 CHANCY L FINFROCK, LL.B., *Assistant*  
 VICTOR LOUIS KRANNERT, B.S., *Assistant*  
 CARLETON MYRON TOWER, *Assistant*

### A. ACCOUNTANCY

#### Courses for Undergraduates

**1a-1b. Principles of Accounting.**—Accounting and bookkeeping; double entry; fundamental accounts and books. *Students who present one unit of bookkeeping for entrance will not be allowed credit for 1a and should register in the second semester in 1b.* Except in case of such students, credit is not given for either 1a or 1b separately. *I, II; (3).*

Mr. LITTLETON, Assistant Professor FILBEY, Mr. BAILY, Miss CLEMENTS, Mr. SPERRY, Mr. MCDUGLE, Mr. KRANNERT, Mr. TOWER.

**2a-2b. Advanced Accounting.**—Fundamentals of cost accounting, theory of partnership and corporation accounts, depreciation, goodwill, reserves, and sinking funds; special financial statements, reading balance sheets, illustrative problems. Credit is not given for either semester separately. *I, II; (3).*

Professor SCOVILL, Assistant Professor FILBEY, Mr. LITTLETON, Dr. LEDEUC, Mr. GREISON

*Prerequisite:* Accountancy 1a-1b; Economics 7 or 26, 22 or 27; registration or credit in Economics 1.

**11. Farm Accounting.**—The principles of accounting and distribution of costs as applied to farm operations; proper investment of funds. *I; (4).* Professor SCOVILL

*Prerequisite:* Open only to students in agriculture who have had Economics 1 or 2.

#### Courses for Advanced Undergraduates and Graduates

**3a-3b. Accounting Problems and Auditing.**—Consolidated balance sheets; liquidation; the auditor's duties; schedules and reports. Credit is not given for either semester separately. *I, II; (3).* Professor SCOVILL

*Prerequisite:* Accountancy 2a-2b; Economics 3; credit or registration in Business Organization and Operation 1.

**4a-4b. Cost Accounting and Systems.**—First Semester: (a) Cost accounting applied to factory procedure, overhead expense, the installation and control of cost systems, presentation of cost data; (b) as a basis for manufacturing efficiency; (c) the construction of cost system. Second Semester: Systems of various specialized businesses as banks, building and loan associations, insurance companies, brokers and the several types of public utility corporations. The work of either semester may be taken separately. *I, II; (2).*

Professor SCOVILL, Mr. LITTLETON

*Prerequisite:* Accountancy 2a-2b, Economics 1.



**5a-5b. C. P. A. Problems.**—Representative problems of various types, including questions on theory and auditing. Credit is not given for either semester separately. *I, II; (3).* Professor SCOVILL

*Prerequisite:* Accountancy 2a-2b.

**13a-13b. Governmental Accounting.**—Accounts and systems of institutions and municipalities, and of the State and Federal governments. Organization; procedure; budget, accounts and records, reports, audits; purchasing and storekeeping; training for Federal service. *I, II; (2).* Assistant Professor MOREY

*Prerequisite:* Accountancy 2a-2b.

**20. Income Tax Procedure.**—Application of the requirements of the Federal income, excess-profits and war-profits taxes. *II; (2).* Assistant Professor FILBEY

*Prerequisite:* Registration or credit in Accountancy 3b; senior standing.

### Summer Session Courses

**S2a-2b. Advanced Accounting.**—(6).

Mr. LITTLETON

*Equivalent:* 2a-2b.

*Prerequisite:* Accountancy 1a-1b; Economics 7 or 26, 22 or 27; credit in Economics 1.

**S4a. Cost Accounting.**—(2).

Professor SCOVILL

*Equivalent:* 4a-4b, first semester.

*Prerequisite:* Accountancy 2a-2b.

**S15. Teacher's Course in Bookkeeping.**—Methods of approach in teaching; conduct of laboratory work; explanation of difficult transactions; logical development and treatment of columnar books, notes and drafts; interest, discount, controlling accounts, specialized books and records, inventories and financial statements. Lectures on different systems in use. General philosophy of accounts. (3).

Professor SCOVILL

*Prerequisite:* A knowledge of elementary bookkeeping.

## B. BUSINESS ORGANIZATION AND OPERATION

### Courses for Undergraduates

**1. Business Organization and Operation.**—Individual proprietorship, partnership, and corporation; the process of organizing a business; organization for operation and the reaction of form of organization on efficiency; gradation and interrelation of divisions and departments; departmental responsibility and authority, routine, and discipline. *I; (3).*

Assistant Professor RUSSELL, Dr. LeDEUC

*Prerequisite:* Economics 1 and Accountancy 2a-2b.

**2. Organization and Control of Mercantile Distribution.**—Problems of organization and management of wholesale and retail establishments. Supervision and control of mercantile distribution by business associations, by consumers, and by political units. *II; (2).*

Assistant Professor RUSSELL, Dr. LE DEUC

*Prerequisite:* Business Organization and Operation 1; Economics 28.

**7. Salesmanship.**—Policies and practise of modern sales organizations; selling problems of manufacturers, wholesalers, and retailers, management of salesman; the practise of individual salesmen. *I; (2).*

Assistant Professor RUSSELL

*Prerequisite:* Economics 1; Business Organization and Operation 1.

**8. Advertising.**—Principles of current practise; cooperation of advertising and personal selling; special problems; planning sales campaigns; choice of media; space buying; and practise in writing copy. *II; (2).*

Assistant Professor RUSSELL

*Prerequisite:* Business Organization and Operation 7.

9. **Commercial and Civic Organizations.**—For students preparing for positions as secretaries of commercial or agricultural associations, civic or welfare clubs, and similar organizations. *II*; (1). Dr. HIERONYMUS

*Prerequisite:* Economics 1, Business Organization and Operation 2, or Economics 28; or Economics 2 and Farm Management 1; or Economics 1, Political Science 4, and Sociology 8.

10. **Newspaper Advertising.**—Designed primarily for students specializing in journalism. Organization and operation of newspaper advertising department; methods of obtaining and handling advertising; the newspaper as an advertising medium. *II*; (3). Assistant Professor RUSSELL

*Prerequisite:* Journalism 1 and 2.

For Business Correspondence see Rhetoric 10.

Mrs. SAUNDERS

### C. BUSINESS LAW

#### Courses for Undergraduates

1a-1b. **Commercial Law.**—Principles underlying the law of contracts, negotiable instruments, agency, partnerships, business corporations, sales of personal property bailments and carriers, guaranty and suretyship, and insurance. *I, II*; (3).

Mr. BAUER, Mr. FINROCK

*Prerequisite:* Sixty hours of university credit, including Economics 1 and Accountancy 1a-1b.

2. **Elementary Law.**—Contracts; leases; property. Open to junior and senior students in agriculture only. *II*; (3).

Mr. BAUER

*Prerequisite:* Economics 1 or 2.

### CERAMIC ENGINEERING

EDWARD WIGHT WASHBURN, Ph.D., *Professor, Ceramic Chemistry; Head of the Department*

CULLEN WARNER PARMELEE, B.S., *Professor*

RALPH KENT HURSH, B.S., *Assistant Professor*

ELMER NEWMAN BUNTING, Ph.D., *Research Associate*

EARL EMANUEL LIBMAN, B.S., *Assistant*

ENOCH GEORGE BOURNE, *Laboratory Demonstrator and Potter*

The courses offered by the department of ceramic engineering are designed to give a technical knowledge of the composition and properties of materials used in the manufacture of claywares, cements, glasses, and enamels, and to acquaint the student with the construction, equipment, and operation of ceramic plants.

Graduates of courses other than ceramic engineering who have the necessary prerequisites may take the following courses for minor credit: 3, 5, 6, 8, 10, 13, 15, 16, 19, and 20.

#### Courses for Undergraduates

1. **Ceramic Materials.**—The properties of clays and other ceramic materials; the identification of the varieties met in practical work. Lectures; laboratory. *I*; (3).

Professor PARMELEE, Mr. LIBMAN

*Prerequisite:* Chemistry 4.

2. **Winning and Preparation of Clays.**—Machinery and processes used in preparing clay for market or manufacture; comparative costs of the different methods. *I*; (3).

Assistant Professor HURSH

*Prerequisite:* Registration in Ceramic Engineering 1.

**3. Industrial Calculations.**—Chemical and physical calculations applying to the operation of furnaces, kilns, and dryers, temperature measurements. *II*; (3).

Assistant Professor HURSH

*Prerequisite:* Ceramic Engineering 1, 2; Physics 1a-1b and 3a-3b.

**4. Drying and Burning.**—The chemical and physical processes involved and types of equipment used in drying and burning ceramic products. *I*; (4).

Assistant Professor HURSH

*Prerequisite:* Ceramic Engineering 1, 2, 3.

**5. Ceramic Bodies.**—Composition and properties of ceramic body mixtures; effects of various ingredients; development of special bodies. Lectures; laboratory. *II*; (5).

Professor PARMELEE, Mr. LIBMAN

*Prerequisite:* Ceramic Engineering 1, 2.

**6. Glazes.**—The various classes of glazes and enamels; the composition, limits, properties, and defects. Lectures; laboratory. *I*; (6).

Professor PARMELEE, Mr. LIBMAN

*Prerequisite:* Ceramic Engineering 3, 5.

**8. Glass.**—Raw materials, preparation, compounding, melting, and shaping; chemical principles involved in the manufacture and decoration of the various types of vitreous silicates. Lectures. *II*; (2).

Professor WASHBURN

*Prerequisite:* Ceramic Engineering 6.

**9. Ceramic Construction.**—Plans, specifications, and estimates for ceramic equipment and industrial plants. *II*; (4).

Assistant Professor HURSH

*Prerequisite:* General Engineering Drawing 2; Ceramic Engineering 3, 4.

**10. Cements.**—Cements, limes, plasters; composition, reactions; methods of manufacture and testing. *I*; (3).

Assistant Professor HURSH

*Prerequisite:* Ceramic Engineering 1, 2, 3.

**11. Thesis.**—*II*; (3 to 5).

Professor WASHBURN, Professor PARMELEE, Assistant Professor HURSH

**12. Designing and Shaping.**—Die construction; templates; master and working molds for pressing, casting, and jiggering. *II*; (3).

Assistant Professor HURSH

*Prerequisite:* Ceramic Engineering 1, 2.

**13. Cement Laboratory.**—The preparation of silicate cements and the study of their properties. *II*; (3).

Assistant Professor HURSH

*Prerequisite:* Ceramic Engineering 10.

**15. Glass Laboratory.**—Soda-lime, potash-lime, lead, barium, and zinc silicates; boro-silicates; properties of fused and solidified glasses; practical glass problems. *II*; (3).

Professor WASHBURN

*Prerequisite:* Ceramic Engineering 6. Registration in Ceramic Engineering 8.

**16. Enamels.**—The various types of enamels, their composition, application, properties and testing. Lectures, laboratory. *II*; (3).

Professor PARMELEE

*Prerequisite:* Ceramic Engineering 6.

**17. Physical Chemistry and its Applications to Ceramic Materials and Processes.**—Lectures; discussions; assigned reading. *I*; (4).

Professor WASHBURN

*Prerequisite:* Ceramic Engineering 3, or equivalent; Mathematics 8 or 7 and 9. Chemistry 3a or 4.

**19. Special Bodies.**—An intensive study of body preparation, the composition, preparation, properties, uses and testing of selected types of bodies. Lectures; laboratory. *II*; (3). Professor PARMELEE

*Prerequisite:* Ceramic Engineering 5.

**20. Refractory Materials.**—The properties and uses of refractory materials employed in the industries; relation between refractory power, chemical composition and physical condition; changes undergone by refractory materials at high temperatures. The subject will be presented as far as possible from the standpoint of the Phase Rule. Lectures, discussions, assigned reading. *II*; (2). Professor WASHBURN

*Prerequisite:* Ceramic Engineering 17 or Chemistry 31.

**99. Inspection Trip.**—Visits to industrial plants representative of various phases of ceramic work. *I*; (no credit).

*Prerequisite:* Senior standing.

### Courses for Graduates

Graduate work leading to the degrees of Master of Science and Doctor of Philosophy in either chemistry (ceramic chemistry) or engineering (ceramic engineering) is offered by the department. Students who have specialized in chemistry, chemical engineering, or ceramic engineering during their undergraduate work will ordinarily be qualified to enter on graduate work leading to higher degrees in ceramic chemistry, while students who have specialized in mechanical engineering, ceramic engineering, or chemical engineering in their undergraduate work will ordinarily be qualified to pursue graduate work leading to the higher degrees in ceramic engineering. Graduate students who wish to elect ceramic chemistry as their major field of study must have had the equivalent of twenty-five semester hours in chemistry and this must include satisfactory courses in general chemistry, qualitative and quantitative analysis, and either physical or organic chemistry. Such students must also have had at least one year of college physics and a training in mathematics which includes calculus.

Candidates for the degree of Doctor of Philosophy with their major field of study in ceramic chemistry must fulfill the general requirements in chemistry as candidates in other branches of chemistry. They will also be expected to offer physical chemistry as one of their minor subjects. Before receiving the degree of Doctor of Philosophy, all such candidates must demonstrate their ability to read French and German literature in their major subject.

**101. The Chemistry of the Compounds of Silicon.**—Seminar. *Twice a week. I, II*; ( $\frac{3}{4}$  unit). Professor WASHBURN

*Prerequisite:* Elementary courses in organic and physical chemistry.

**103. Silicon Chemistry.**—A laboratory course to supplement Ceramic Engineering 101, which must precede or accompany it. *II*; (1 to 2 units). Professor WASHBURN

**102. General Technology of the Clay Industries.** An advanced course dealing with the physical properties of ceramic materials and products in the light of their dependence upon chemical composition, mineralogical constitution, and physical condition. Lectures, seminar and laboratory. *I, II*; (1 to 2 units). Professor PARMELEE

*Prerequisite:* The elements of mineralogy and of physical chemistry.

**105. Technology of Glass.**—Glassy silicates; limiting composition; physical and chemical properties of glasses and the dependence of these properties upon composition. Lectures and laboratory. (1 to 2 units.) Professor PARMELEE

## CHEMISTRY

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor and Director*  
SAMUEL WILSON PARR, M.S., *Professor*  
EDWARD BARTOW, Ph.D., *Professor*  
ROGER ADAMS, Ph.D., *Professor*  
ERIC K RIDEAL, M.A., Ph.D., *Visiting Professor of Physical Chemistry*  
DAVID FORD MCFARLAND, Ph.D., *Associate Professor*  
HOWARD BISHOP LEWIS, Ph.D., *Associate Professor*  
B SMITH HOPKINS, Ph. D., *Associate Professor*  
GEORGE DENTON BEAL, Ph.D., *Assistant Professor*  
JOHN HENRY REEDY, Ph.D., *Assistant Professor*  
OLIVER KAMM, Ph.D., *Assistant Professor*  
DUANE TAYLOR ENGLIS, Ph.D., *Associate*  
THOMAS ERNEST LAYNG, Ph.D., *Associate*  
SILAS ALONZO BRALEY, Ph.D., *Associate*  
GERHARD DIETRICHSON, Ph.D., *Associate*  
ROSALIE MARIE PARR, Ph.D., *Instructor*  
ALLEN EDWARD STEARN, Ph.D., *Instructor*  
ALBERT GEYER LOOMIS, Ph.D., *Instructor*  
GEORGE HOPKINS COLEMAN, M.S., *Research Assistant*  
CARL CLARENCE LARSON, B.S., *Research Assistant*  
GAIL PHILLIP EDWARDS, B.S., *Research Assistant*  
MARION EMELINE SPARKS, A.M., B.L.S., *Assistant in charge Chemical Library*  
PAUL ANDERS, *Assistant, Glass Blowing*  
HERBERT EPHRAIM FRENCH, A.M., *Assistant*  
OTIS AVERY BARNES, M.S., *Assistant*  
ROSSLEENE MERLE ARNOLD, A.M., *Assistant*  
MANSON JAMES BRADLEY, A.M., *Assistant*  
JOHN ABERDEEN GUNTON, A.M., *Assistant*  
OLIVE B JOHNSON, B.S., *Assistant*  
HELENE ELEANORE DOTY, A.B., *Assistant*  
LUCIE EMMA ROOT, A.B., *Assistant*  
GENEVIEVE STEARNS, A.B., *Assistant*  
CARL ERIC SAMUEL STREM, A.B., *Assistant*  
HOWARD MARION CHILES, B.S., *Assistant*  
RUSSELL WARD MILLAR, B.S., *Assistant*  
ADAM A CHRISTMAN, B.S., *Assistant*  
MINER MANLEY AUSTIN, A.M., *Assistant*  
WALTER RAYMOND KIRNER, B.S., *Assistant*  
ISAAC HAHN GODLOVE, A.M., *Assistant*  
OWEN VERNON SHAFFER, B.S., *Assistant*  
JOHN BERNIS BROWN, M.S., *Assistant*  
ALBERT OTTO MATTHEWS, B.S., *Assistant*  
FRED RODGERS MCCRUMB, B.S., *Assistant*  
NORRIS ONSLON TAYLOR, B.S., *Assistant*  
MAX SHAW DUNN, M.S., *Assistant*  
LEONARD FRANCIS YNTEMA, A.M., *Assistant*  
OTTO ERSKINE HUNTLEY, A.B., *Assistant*  
WILLIAM COURTNEY WILSON, B.S., *Assistant*  
EARL AGARD ENGLE, A.M., *Assistant*  
ROBERT EDMAN GREENFIELD, A.M., *Assistant*

RALPH WILLIAM HUFFERD, A.M., *Assistant*  
 DEETTE ROLFE, A.M., *Assistant*  
 FLOYD KINYON THAYER, A.B., *Assistant*  
 W W HURST, *Assistant, (Second Semester)*  
 CHARLES HERMAN PEET, A.B., *Assistant*  
 WALDO BRIGGS BURNETT, A.B., *Assistant*  
 FRANK HAROLD MCCOMBS, B.S., *Graduate Assistant*  
 PAUL CURTIS GWINN, A.B., *Graduate Assistant*  
 LEO LEHR CARRICK, A.M., *Graduate Assistant*  
 EDWARD TILLSON HOWELL, B.S., *Graduate Assistant*  
 ADOLPH FRIEDERICH THAL, B.S., *Graduate Assistant*  
 BRUCE KEITH BROWN, B.S., *Graduate Assistant*  
 J ALLEN BAKER, M.S., *Graduate Assistant*  
 WILSON DAVIS LANGLEY, M.S., *Graduate Assistant*  
 JOHN RAVEN JOHNSON, B.S., *Graduate Assistant*  
 JOHN BARTLETT SEGUR, B.S., *Graduate Assistant*  
 PHILIP KELSEY PORTER, A.B., *Graduate Assistant*  
 RALPH FRED SCHNEIDER, B.S., *Graduate Assistant*  
 ARTHUR WILLIAM INGERSOLL, M.S., *Graduate Assistant*  
 JAMES ALEXANDER HAWKINS, A.B., *Graduate Assistant*  
 FLORA MARION LOUGEE, A.B., *Graduate Assistant*  
 EDMUND B MIDDLETON, A.B., *Graduate Assistant*  
 ELMER WADE ADAMS, B.S., *Graduate Assistant*  
 KEITH EMANUEL SPARKS, B.S., *Graduate Assistant*  
 FRANK HOWARD DRIGGS, A.B., *Graduate Assistant*  
 LOTHAR HOMER BREDE, B.S., *Graduate Assistant*  
 DORTHA BESSIE BAILEY, A.B., *Graduate Assistant*  
 DORIS E BOCKIUS, B.S., *Graduate Assistant*  
 JEAN CHARLOTTE SHEPHARD, A.B., *Graduate Assistant*  
 MYRA JANE ROBINSON, A.B., *Graduate Assistant*  
 SAMUEL RUSSELL OFFUT, B.S., *Graduate Assistant*

*Cooperating:*

HARRY SANDS GRINDLEY, D.Sc., *Professor, Animal Nutrition*  
 EDWARD WIGHT WASHBURN, Ph.D., *Professor, Ceramic Chemistry*  
 RALPH EMERSON RINDFUSZ, Ph.D., *Instructor (Summer Session)*

**Major:** 20 hours, exclusive of Chemistry 1, 1a, 1b, 4, and 16, and inclusive of courses in quantitative analysis and organic chemistry.

**Minors:** 20 hours, chosen from bacteriology, botany, geology, mathematics, philosophy, physiology, physics, and zoology.

Students taking chemistry at the University are advised to give at least one year to the subject, and this should include Chemistry 1 or 1a, 2a or 3a. Those continuing in the second year should take Chemistry 5a and 5b, or 13a and 25. In the third year Chemistry 14a, 14b, 14c and 14d or 9 and 9a, 31, and 33 should be taken. With these, more special courses may be taken if desired, but students are not advised to take the special courses unless they have had the fundamental work represented by the selection given above. Students who desire a training for professional work in chemistry, either as teachers or in its industrial applications, should take the curriculum in chemistry, or in chemical engineering.

Students who find it impossible to take more than one semester's work are requested to register in Chemistry 1 or 1a in the second semester rather than in the first.

**1. Inorganic Chemistry.**—The non-metallic elements. *I* or *II*; (5).

Associate Professor HOPKINS in charge

Professor NOYES, Assistant Professor REEDY, Dr. ROSALIE PARR, Dr. ENGLIS, Dr. LOOMIS, and assistants.

*Prerequisite:* One unit of entrance credit in physics, or  $2\frac{1}{2}$  units entrance credit in mathematics or registration in mathematics 2 or 3.**NOTE:**—Students who have received entrance credit for high school chemistry are given only 3 hours credit for Chemistry 1.**1a. Inorganic Chemistry.**—Lectures; recitations; laboratory. For students who have had one year of high school chemistry. *I*, or *II*; (3).

Associate Professor HOPKINS in charge

Professor NOYES, Assistant Professor REEDY, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. LOOMIS, and assistants.

*Prerequisite:* One unit of entrance credit in chemistry.**NOTE:**—Students whose preparation proves to be inadequate for continuing this course will be required to change their registration to Chemistry 1. Students who have not used their high-school chemistry for entrance may, upon petition, receive 5 hours credit for Chemistry 1a. Students who have failed in Chemistry 1 are permitted to register for Chemistry 1a and will receive 5 hours credit, on petition, if their final grade is C or above.**1b. Inorganic Chemistry.**—Lectures; recitations; laboratory. (For students in engineering.) *I* or *II*; (4).

Associate Professor HOPKINS in charge

Professor NOYES, Assistant Professor REEDY, Dr. ENGLIS, Dr. LOOMIS, Dr. ROSALIE PARR, and assistants.

**NOTE:**—Students who have credit for high-school chemistry should register for Chemistry 1a.**2a. Inorganic Chemistry and Qualitative Analysis.**—Chemistry and qualitative analysis of the more common metals and inorganic compounds. Lectures; recitations; laboratory. *I* or *II*; (5).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. LOOMIS, Dr. ROSALIE PARR, and assistants.

*Prerequisite:* Chemistry 1 or 1a.**3a. Inorganic Chemistry and Qualitative Analysis.**—For students in chemistry and chemical engineering. *II*; (5).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. LOOMIS, Dr. ROSALIE PARR, and assistants.

*Prerequisite:* Chemistry 1 or 1a.**4. Qualitative Analysis and Chemistry of the Metallic Elements.**—Lecture; class and laboratory work. (For students in engineering.) *II*; (4).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. LOOMIS, Dr. ROSALIE PARR, and assistants.

*Prerequisite:* Chemistry 1a or 1b.**4c. Qualitative Analysis and Chemistry of the Metallic Elements.**—(For students who have completed the first half of Qualitative Analysis). Lectures; class and laboratory work. *I*; (3).

Associate Professor HOPKINS, Assistant Professor REEDY, Dr. ENGLIS, Dr. ROSALIE PARR, Dr. LOOMIS, and assistants.

*Prerequisite:* Chemistry 2d or 4b.

**5a. Elementary Quantitative Analysis.**—Gravimetric and volumetric analysis; stoichiometrical relations and the application of the fundamental laws of chemistry to quantitative analysis. Lectures; recitations; laboratory. *I* or *II*; (5).

Assistant Professor BEAL in charge, Dr. BRALEY, Dr. STEARN, and assistants.

*Prerequisite:* Chemistry 2a, or 3a, or 4.

**5b. Quantitative Analysis.**—(Continuation of Chemistry 5a). Analysis of silicates, ores, and alloys; advanced qualitative analysis. Lectures; recitations; laboratory. *II*; (5).

Assistant Professor BEAL, Dr. BRALEY, Dr. STEARN, and assistants

*Prerequisite:* Chemistry 5a.

**6<sup>1</sup>. Chemical Technology.**—Technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes; trade journals. Lectures; recitations. *II*; (3).

Associate Professor MCFARLAND

*Prerequisite:* Chemistry 5a and 14a.

**7<sup>1</sup>. Metallurgy.**—General metallurgy; metallurgy of iron and steel. Lectures; assigned reading; recitations. *I*; (3).

Associate Professor MCFARLAND

*Prerequisite:* Chemistry 5a. (Senior students in engineering courses may be admitted to this course by special arrangement, without this prerequisite).

**7a. Metallurgy of the Non-Ferrous Metals.**—Copper, lead, zinc, gold, and silver. *II*; (3).

Associate Professor MCFARLAND

*Prerequisite:* Chemistry 7.

**9. Elementary Organic Chemistry.**—Important compounds of carbon. *II*; (3).

Professor ADAMS

*Prerequisite:* Chemistry 2a or 3a.

**9c. Elementary Organic Chemistry.**—(Laboratory to accompany Chemistry 9.) *II*; (2).

Professor ADAMS and assistants

*Prerequisite:* Chemistry 2a or 3a; registration in Chemistry 9.

**10a. Water Chemistry.**—History, sources, contamination, and standards of purity of potable waters and waters for industrial purposes. Lectures; practise in analytical methods. *II*; (3).

Professor BARTOW, Mr. GREENFIELD

*Prerequisite:* Chemistry 5a or 13a.

**10b. Chemistry of Water and Sewage.**—The chemical analysis of potable waters and waters for industrial purposes. Lectures on the history, sources, contamination, and standards of purity. Chemical analysis of sewage and effluents from sewage treatment plants, for students in sanitary engineering, registered in connection with Civil Engineering 53. *I*; (2½).

Professor BARTOW, Mr. GREENFIELD

*Prerequisite:* Chemistry 4.

**11a-11b. Thesis.**—Thesis, embodying a review of the literature of the subject, account of work done in the laboratory. The subject should be determined upon and reading begun in the junior year. A minimum of five semester hours is required. (Required of seniors in chemistry and chemical engineering). *I, II*; (3 to 5).<sup>2</sup>

Professor NOYES in charge

**13a. Elementary Quantitative Analysis.**—Gravimetric and volumetric analysis, fertilizer and milk analysis. Lectures; recitations; laboratory. (For students in agriculture). *I* or *II*; (5).

Dr. BRALEY, Dr. STEARN, and assistants

*Prerequisite:* Chemistry 2a or 3a.

<sup>1</sup>Certain required inspection trips will be arranged in connection with courses 6 and 7. Students registered in these courses should take into consideration the expense involved, which will not exceed \$15.00 for each course.

<sup>2</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5; but 2, or 3, or 4, or 5.



**[13b. Advanced Agricultural Analysis.**—Special methods in agricultural analysis; theory of the determinations; preparation of solutions; sampling; calculations. *II*; (5). Not given 1919–20]. Assistant Professor NEAL

*Prerequisite:* Chemistry 5a or 13a.

**14a-14b. Organic Chemistry.**—Lectures; recitations. *I*, (4); *II*, (2).

Professor NOYES

*Prerequisite:* Chemistry 5a; should be accompanied by Chemistry 14c and 14d.

**14c. Organic Chemistry (Laboratory Work).**—Organic synthesis. (Formerly Chemistry 9a). *I* or *II*; (2). Professor ADAMS and assistants

*Prerequisite:* Registration in Chemistry 14a, or equivalent.

**14d. Organic Chemistry (Laboratory Work).**—Organic synthesis, quantitative and qualitative analysis. Continuation of Chemistry 14c, to accompany Chemistry 14b. (Formerly Chemistry 9b). *I* or *II*; (2). Assistant Professor KAMM and assistants

*Prerequisite:* Chemistry 14a, 14c; registration in Chemistry 14b, or equivalent.

**15. Physiological Chemistry.**—Enzymes; carbohydrates; salivary digestion; gastric digestion; fats; pancreatic digestion; intestinal digestion; bile; putrefaction products; feces; blood; milk; epithelial and connective tissues: muscular tissue; nervous tissue; urine. Qualitative and quantitative work on gastric juice, blood, urine, and milk; the clinical aspects of these topics treated thoroughly for prospective students of medicine. Lectures; demonstrations; conferences; practical work; assigned reading. (Open to graduates and undergraduates). *I*; (5). Associate Professor LEWIS and assistants

*Prerequisite:* Chemistry 5a or 13a; 9 or 14a-14b.

**15a. Problems of Metabolism.**—Variations of metabolism in health and disease; chemistry of the ductless glands; chemical methods of diagnosis; micro-analysis of blood, tissues, and urine. Lectures; conferences; laboratory. *II*; (3).

Associate Professor LEWIS and assistants

*Prerequisite:* Chemistry 15.

**16. Fuel, Gas, and Water Analysis for Engineers.**—The proximate analysis of coal; determination of calorific value; technical analysis of furnace gases; examination of boiler waters; lubricating oils. (For students in engineering). *II*; (3).

Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 4; junior standing.

**17. Teachers' Course.**—Methods of teaching Elementary Chemistry. *I*; (1).

Associate Professor HOPKINS

*Prerequisite:* 13 hours chemistry and senior standing.

**21. Qualitative Organic Analysis.**—Identification of pure organic compounds and mixtures. *I*; (3). Assistant Professor KAMM and assistants

*Prerequisite:* Chemistry 14c, 14d.

**25. Food Analysis.**—Quantitative organic analysis, with special reference to the examination of food products: alcohols, carbohydrates, fats, and oils, cereals, nitrogeous bodies, preservatives, and colors. *I*; (5). Assistant Professor BEAL and assistant

*Prerequisite:* Chemistry 5a or 13a; 9 or 14a-14b.

**26. Pharmaceutical Chemistry.**—The analytical chemistry of medicinal substances, with a discussion of the common types of pharmaceutical preparations. *II*; (3).

Assistant Professor BEAL and assistant

*Prerequisite:* Chemistry 14a-14b.

**27. Qualitative Analysis of the Rarer Elements.**—The rarer elements and their compounds; identification and separation of the elements; formation, solubilities, and chemical reactions of their salts. Lectures and laboratory. *II*; (3).

Associate Professor HOPKINS, Dr. PARR

*Prerequisite:* Two years' work in chemistry.

**28. Advanced Qualitative Analysis.**—Methods of separation; qualitative reagents; theory of reactions. Designed especially for those intending to teach qualitative chemistry. Lectures and seminar. *I*; (2).

Associate Professor HOPKINS

*Prerequisite:* Senior standing and Chemistry 31, or graduate standing.

**31. Elementary Physical Chemistry.**—The more important principles of physical chemistry and electrochemistry. Lectures; recitations; problems. *II*; (3).

Professor RIDEAL

*Prerequisite:* Chemistry 5a, 5b; Physics 1a-1b, or 7a-7b; Mathematics 7 or 8.

**32. Physical Chemistry.**—A continuation of Chemistry 31 including an introduction to thermodynamics as applied to chemistry. Lectures; problems. *I*; (3).

Professor RIDEAL

*Prerequisite:* Chemistry 31, 33.

**33. Elementary Physical Chemistry.**—Molecular weight in gases and solutions; chemical equilibrium; the electrical conductivity of solutions and the attendant phenomena within the solution; thermochemistry. (Laboratory to accompany course 31). *II*; (2).

Dr. DIETRICHSON, Dr. LOOMIS, and assistant

*Prerequisite:* Chemistry 1, 2a or 3a, 5a, 5b; Physics 1a-1b, or 7a-7b; Mathematics 7 or 8.

**35. Electrochemistry.**—The theory of electrochemical reactions. Technical applications of electrochemistry, including electric furnace processes. Lectures; recitations; laboratory. *I*; (3).

Dr. DIETRICHSON

*Prerequisite:* Chemistry 31, 33.

**45. Chemical Calculations.**—Interpretation of general chemical data involving the use of tables, slide rules, graphs, etc. Solution of typical chemical problems, primarily analytical and industrial. Lectures; recitations; problems. *I*; (1).

Dr. STEARN

*Prerequisite:* Sophomore standing; the consent of the instructor.

**[46. Chemistry of Plant Products.**—The occurrence of organic compounds in plants and their relation to plant nutrition. Lectures and laboratory. *II*; (2). Not given in 1919-20.

Dr. ENGLIS

*Prerequisite:* Chemistry 9 and 9c, or 14a and 14c.]

**[47. Physical Methods in Inorganic Problems.**—Selected topics involving the application of the methods of Physical Chemistry. Recitations; assigned readings. *I*; (2). Not given in 1919-20.

Assistant Professor REEDY]

**61. Industrial Chemical Laboratory.**—The preparation and purification of chemical products from raw materials on a scale sufficient to afford data for determining the economy of the processes employed. (Should be accompanied by either Chemistry 6 or 109). *II*; (3).

Associate Professor MCFARLAND

*Prerequisite:* Chemistry 5a and 14a.

**65. Fuels and Flue Gases.**—Fuel inspection; gas analysis; determination of calorific values; calculation of efficiencies. *I*; (2).

Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 5a.

**66. Gas Engineering.**—Gas machinery; ovens and appliances for carbonization; recovery of by-products. *II*; (1). Professor PARR

*Prerequisite:* Chemistry 65. Registration in 66a is advised.

**66a. Control Processes in Gas Manufacture.**—Standardization methods and inspection. *II*; (1). Professor PARR

**69. Metallurgical Laboratory and Assaying.**—The fire assay of gold, silver, lead, and copper ores, mattes, and bullion; special experiments illustrating the underlying metallurgical principles; fluxes, slags, and charge calculations; practise in the use of coal, oil, and gas furnaces, and in the measurement of high temperatures. *I*; (2).

Associate Professor MCFARLAND

*Prerequisite:* Chemistry 5a; Geology 20.

**72. Paints, Oils, Turpentine, Varnishes, and Protective Coverings for Wood and Metals.**—Lectures and laboratory. *I*; (2). Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 5a and 14a-14b.

**73. Asphalt, Tar, and Distillation Products.**—Sources, characteristics, composition, and examination; binders and dust preventives used in road construction. (For students in highway engineering). *II*; (2). Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 2a or 4.

**76. Mineral Oils.**—Fractionation, analysis, evaluation for fuel, lubrication and gas manufacture. *II*; (2). Professor PARR, Dr. LAYNG

*Prerequisite:* Chemistry 9a and 14a.

**77. Composition and Classification of Coal.**—Classification, changes in composition, weathering, spontaneous combustion, formation of mine gases. Lectures; assigned reading. *II*; (1). Professor PARR

*Prerequisite:* Chemistry 65.

**78. Metallography.**—Constitution and microstructure of metals and alloys and the relations between their properties, chemical and mechanical treatment, and structure. Lectures; reading; laboratory. *II*; (2). Associate Professor MCFARLAND

*Prerequisite:* Chemistry 7.

**80. Elements of Gas Blowing.**—A laboratory course in the construction and repair of glass apparatus. *II*; (1). Mr. ANDERS

*Prerequisite:* Two years' work in chemistry.

**86. Chemistry of the Higher Order Compounds.**—Complex compounds from the standpoint of the Valence Theory as developed by Werner. *II*; (2). Dr. STEARN

*Prerequisite:* Chemistry 9a, 9b, 14a-14b.

**90-91. Chemical Inspection Trips.**—Required for juniors and seniors in the courses in chemistry and chemical engineering. For the year 1919-20 the trips took place on March 29 to April 3, 1920. The expense involved will approximate fifteen to twenty-five dollars for each student. *II*; (no credit). Associate Professor MCFARLAND in charge

**92a-92b. Chemical Literature and Reference Work.**—Periods, leaders, journals. Required of juniors in chemistry and chemical engineering; required also of juniors who are majoring in chemistry. *I, II*; (1). Miss SPARKS

**93a-93b. Journal Meeting.**—Required of seniors and all graduate students in chemistry. All members of the staff of the department of chemistry are expected to attend. *I, II*; (1). Dr. BRALEY

**95. History of Chemistry.**—Lectures and assigned reading. *I*; (2).

Professor NOYES

## Courses for Graduates

Graduate students whose major subject is in some department other than chemistry, before taking graduate work for credit in this department, must have had the equivalent of 15 university credits in chemistry, and the ground covered should include satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to make selections from the following courses: Chemistry 31, 33 (or 102, 102a), 14a, 14b, 14c, 14d, 15, and 25. Courses of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 25 university credits in chemistry, properly distributed.

For students in chemistry, 5a, 13a, 9, and 9c will not be accepted for graduate credit, and 14a-14b, 14c, 14d, 31, and 33 will be accepted only from students entering the Graduate School with the equivalent of 30 university credits in chemistry.

**101. Theories of Chemistry.**—Seminar. Origin and development of the principal theories of the science. *Once a week. II; ( $\frac{1}{4}$  unit).* Professor NOYES

**102. Advanced Physical Chemistry.**—This course, with 102a, covers a period of two years. Either course may be taken first. Kinetic molecular methods; kinetic theory of gases; entropy and probability; the quantum theory; the molecular structure of liquids and solids; the electron theory. Lectures; seminar. *I, II; ( $\frac{3}{4}$  unit).*

Professor RIDEAL

*Prerequisite:* Chemistry 1, 2a or 3a; Physics 1a-1b, 3a-3b; Mathematics 8a or 7 and 9. An elementary knowledge of organic and physical chemistry is desirable.

**102a. Advanced Electrochemistry.**—Modern theories of solution; thermodynamics; transformations of chemical and electrical energy. *Three times a week. I; ( $\frac{3}{4}$  unit).*

Professor RIDEAL

*Prerequisite:* Chemistry 35.

**102e. Physical Chemistry Seminar.**—A review of current literature in physical chemistry. *Once a week; I, II; ( $\frac{1}{4}$  unit).*

Professor RIDEAL

**103. Advanced Inorganic Chemistry.**—Descriptive inorganic chemistry; the rarer elements; the periodic system. Lectures and recitations, with or without laboratory. *Two to five times a week; I, II; ( $\frac{1}{2}$  to  $1\frac{1}{4}$  units).*

Associate Professor HOPKINS

**103. Advanced Analytical Chemistry.**—Special topics. Lectures, with or without laboratory. *One to five times a week; II; ( $\frac{1}{2}$  to  $1\frac{1}{4}$  units).*

Dr. BRALEY

*Prerequisite:* Chemistry 5b, 9a, 9b, 14a-14b, 31, 33.

**[103b. Special Topics in Inorganic Chemistry.**—Lectures; seminar. *I; ( $\frac{3}{4}$  unit).* Not given 1919-20.

*Prerequisite:* Chemistry 9a, 9b, 14a-14b.]

**103c. Special Topics in Inorganic Chemistry.**—Seminar: Rare earths. *I, II; ( $\frac{1}{4}$  unit).*

Associate Professor HOPKINS

**104. Advanced Organic Chemistry.**—Geometric isomerism; optical isomerism; tautomerism; mechanisms of important reactions; etc. *I; ( $\frac{3}{4}$  unit).*

Professor ADAMS

**104a. Advanced Organic Chemistry.**—(Special topics). Carbohydrates, proteins, ureides, alkaloids, terpenes, relationship between color and constitution, physiological properties and chemical constitution, trivalent carbon, bivalent carbon. General reactions in organic chemistry. *II; ( $\frac{3}{4}$  unit).*

Assistant Professor KAMM

**104b. Advanced Quantitative Organic Chemistry.**—Proteins, alkaloids, glucosides, volatile oils, and other constituents of animal and vegetable tissues. Plant analysis.

Toxicological analysis. The general methods, chemical and physical, of organic analysis. Lectures and seminar. May be accompanied by laboratory work on a selected group of compounds. *Twice a week; I, II; ( $\frac{3}{4}$  unit;  $1\frac{1}{4}$  unit with laboratory).*

Assistant Professor BEAL

**104c. Organic Chemistry.**—Seminar.—A review of the current literature in organic chemistry. *Once every two weeks; I, II; ( $\frac{1}{4}$  unit).*

Professor ADAMS, Assistant Professor KAMM

**[104d. Advanced Organic Chemistry.**—Benzene, naphthalene, and anthracene compounds, pyridines, pyrroles, etc. *I; ( $\frac{3}{4}$  unit).* Not given 1919–20.]

**104e. Advanced Organic Chemistry.**—Chiefly laboratory work. The study and development of methods which are suitable for large scale production. (Limited to ten students in 1919–20). *I or II; (1 unit).* Professor ADAMS, Assistant Professor KAMM

**105. Advanced Physiological Chemistry.**—A more detailed study of the structure and distribution of the proteins. The chemistry of intermediary metabolism and of the glands of internal secretion. Lectures; demonstrations; assigned readings; discussions. *Twice a week; II; ( $\frac{3}{4}$  unit).*

Associate Professor LEWIS

**105a. Advanced Physiological Chemistry.**—The more difficult biochemical preparations; the use of analytical methods. Lecture and laboratory. *One to five times a week; I, II; ( $\frac{3}{4}$  unit).*

Associate Professor LEWIS

**105b-105c. Advanced Physiological Chemistry.**—Seminar. A consideration of some phases of the recent development of physiological chemistry. *Two hours a week; I, II; ( $\frac{1}{2}$  unit).*

Associate Professor LEWIS

**106. Animal Chemistry (Animal Nutrition).**—Recent advances in the chemistry of nutrition of the lower animals; the chemistry of the functional products; the flesh, fat, milk, and wool of the more common domesticated animals. Lectures; conferences; assigned reading; laboratory. *Five times a week; I, II; (1 to  $1\frac{1}{2}$  units).*

Professor GRINDLEY

*Prerequisite:* Two years' work in chemistry.

**107. Special Problems in Technology of Fuels.**—*I; (1 unit).*

Professor PARR

*Prerequisite:* Chemistry 77.

**107a. Fuel Technology.**—Fuel types: solid, liquid, and gaseous; sources, output, prospective supply, and industrial interrelations; conservation and combustion problems. *One to two times a week; I; ( $\frac{1}{4}$  to  $\frac{1}{2}$  unit).* (Alternately with 107).

Professor PARR

**107b. Special Topics in Gas Engineering.**—Carbonization processes; by-product constituents and recovery. *One to two times a week; II; ( $\frac{1}{4}$  to  $\frac{1}{2}$  unit).*

Professor PARR

**108. Advanced Metallography.**—Selected alloy systems; correlation of constitution and properties. *Twice a week; I; ( $\frac{3}{4}$  unit).*

Associate Professor MCFARLAND

*Prerequisite:* Chemistry 7 and 78 or equivalent.

**109. Advanced Industrial Chemistry.**—Seminar. Some of the more important chemical industries; the development and chemical control of processes. *Twice a week; I, II; ( $\frac{3}{4}$  unit).*

Associate Professor MCFARLAND

**110. Water Supplies.**—An advanced course in the chemistry of water and sewage. The sources of contamination of water supplies and the purification of water for potable or technical use. *One to five times a week; I, II; ( $\frac{1}{2}$  to  $1\frac{1}{4}$  units).*

Professor BARTOW

111. **Research.**—A thesis is usually required of students taking the Master's degree and is always required of students taking the degree of Doctor of Philosophy. (For a description of undergraduate work leading to a thesis, see Chemistry 11.) *I, II*; Work may be taken in the following subjects:

PHYSICAL AND ELECTROCHEMISTRY	Professor RIDEAL
INORGANIC CHEMISTRY	Associate Professor HOPKINS, Assistant Professor BEAL
ANALYTICAL CHEMISTRY	Assistant Professor BEAL, Dr. BRALEY
FOOD CHEMISTRY	Assistant Professor BEAL
ORGANIC CHEMISTRY	Professors NOYES, ADAMS, Assistant Professor KAMM
WATER CHEMISTRY	Professor BARTOW
ANIMAL CHEMISTRY (Animal Nutrition)	Professor GRINDLEY
PHYSIOLOGICAL CHEMISTRY	Associate Professor LEWIS
INDUSTRIAL CHEMISTRY	Professor PARR, Associate Professor McFARLAND, Dr. LAYNG
CERAMIC CHEMISTRY	Professor WASHBURN

### Summer Session Courses

Note.—All of the courses in chemistry in the Summer Session are equivalent to the courses of the same numbers given during the academic year, and have the same pre-requisites.

### Courses for Undergraduates

- S1. Elementary Chemistry. Associate Professor HOPKINS, Dr. ENGLIS, Dr. R. M. PARR
- S1a. Inorganic Chemistry. Associate Professor HOPKINS, Dr. ENGLIS, Dr. R. M. PARR
- S1b. Inorganic Chemistry.—For engineering students. Associate Professor HOPKINS, Dr. ENGLIS
- S2a. Inorganic Chemistry and Qualitative Analysis. Assistant Professor REEDY, Dr. R. M. PARR
- S3a. Inorganic Chemistry and Qualitative Analysis. Assistant Professor REEDY, Dr. R. M. PARR
- S5a. Elementary Quantitative Analysis. Assistant Professor BEAL, Dr. BRALEY, Mr. GUNTON
- S5b. Quantitative Analysis. Assistant Professor BEAL, Dr. BRALEY
- S13a. Agricultural Analysis. Assistant Professor BEAL, Dr. BRALEY, Mr. GUNTON

### Courses for Undergraduates and Graduates.

By suitable selection of courses through four consecutive summers it will be possible for persons attending the Summer Session to meet the requirements for the Master's degree, with the exception of the completion of a course in physical chemistry.

- S14a. Elementary Organic Chemistry. Professor ADAMS
- S14b. Organic Chemistry (second course). Professor ADAMS, Dr. RINDFUSZ
- S14c. Organic Chemistry (elementary laboratory). Dr. RINDFUSZ, Dr. COLVER
- S14d. Organic Chemistry (advanced laboratory). Professor ADAMS, Dr. RINDFUSZ
- S15. Physiological Chemistry. Associate Professor LEWIS
- S15a. Problems of Metabolism. Associate Professor LEWIS
- S17. Teachers' Course. Associate Professor HOPKINS
- S21. Qualitative Organic Analysis. Dr. RINDFUSZ

S25. Food Analysis.	Assistant Professor BEAL, Mr. GUNTON
S26. Pharmaceutical Chemistry.	Assistant Professor BEAL
S27. Qualitative Analysis of the Rarer Elements.	Assistant Professor HOPKINS
S65. Technical Gas and Fuel Analysis.	Dr. BRALEY, Mr. BRADLEY
S92. Chemical Literature and Reference Work.	Miss SPARKS
S11 and S111. Research.	
INORGANIC CHEMISTRY	Associate Professor HOPKINS
ANALYTICAL CHEMISTRY	Assistant Professor BEAL
PHYSIOLOGICAL CHEMISTRY	Associate Professor LEWIS
ORGANIC CHEMISTRY	Professor ADAMS, Dr. RINDFUSZ

### CIVIL ENGINEERING

FREDERICK HAYNES NEWELL, B.S., D.Eng., *Professor, Head of the Department*  
 IRA OSBORN BAKER, B.S., C.E., D.Eng., *Professor*  
 CHARLES ALTON ELLIS, A.B., *Professor, Structural Engineering*  
 WILBUR M WILSON, M.M.E., C.E., *Associate Professor, Structural Engineering*  
 JAMES ELMO SMITH, B.S., C.E., *Assistant Professor*  
 CARROLL CARSON WILEY, B.S., C.E., *Assistant Professor, Highway Engineering*  
 GEORGE WELLINGTON PICKELS, B.C.E., C.E., *Assistant Professor, Drainage Engineering*  
 WILLIAM HORACE RAYNER, B.S., C.E., *Assistant Professor, Surveying*  
 EARL WESLEY CARRIER, B.S., *Instructor, Surveying*  
 EDWARD EZRA BAUER, B.S., *Assistant, Highway Engineering*

### Courses for Undergraduates

**27. Plane Surveying.**—The theory, use and adjustment of the compass, transit, and level; the computation of areas and volumes and the partitioning of land; map construction, the United States land survey methods, reestablishment of corners and boundaries, and interpretation of deeds; farm and city surveying; elements of topographic surveying. Problems with the tape, compass, transit, and level. *I; (3).*

Assistant Professor PICKELS, Assistant Professor RAYNER, Mr. CARRIER

*Prerequisite:* General Engineering Drawing 1, 2; Mathematics 4.

**28. Higher Surveying.**—The theory and use of the transit and plane-table in making topographic surveys; methods; topographic surveying. *II; (3).*

Assistant Professor PICKELS, Assistant Professor RAYNER

*Prerequisite:* Civil Engineering 27; Physics 1a, 3a, and registration in Physics 1b, 3b.

**31. Plane Surveying.**—(For students in landscape gardening). Determination of horizontal distances by pacing, taping, and stadia; determination of vertical distances by use of engineers' level; measurement of horizontal and vertical angles with transit; adjustment of instruments; methods used and accuracy necessary in making various kinds of surveys; setting slope stakes; cross-sectioning; construction and use of profiles; mapping. *I; (3).*

Assistant Professor PICKELS

*Prerequisite:* Mathematics 4; Architecture 31, 32.

**32. Topographic Surveying.**—(For students in landscape gardening). The stadia; topographic signs; contour construction; grading and drainage; advanced plane-table; earth-work computations; use of planimeter; establishing grades; each student prepares a large-scale topographic map of a portion of the campus. *II; (3).*

Assistant Professor PICKELS

*Prerequisite:* Civil Engineering 31.

**38. Map Reading and Military Sketching.**—(For engineering students who have not taken surveying.) Use and construction of topographic maps; representation of relief; conventional signs; contour construction; profiles, visibility of lines and areas; construction of military maps in the field; road, out post, and position sketches; sketch board, clinometer, range finder, aneroid barometer. *II*; (1). Assistant Professor RAYNER

*Prerequisite:* Sophomore standing in engineering.

**51. Railroad Surveying.**—Economic location, construction, and maintenance of rail-ways; curves, turnouts, and earth works; preliminary and location surveys. Each student makes a complete set of maps, profiles, and estimates. *I*; (5).

Assistant Professor SMITH, Mr. BAUER

*Prerequisite:* Civil Engineering 27, 28.

**52. Roads and Pavements.**—Road and street location and drainage; construction and maintenance of earth, gravel, macadam, concrete, brick and bituminous roads and pavements; comparison of different types; pavement accessories. *II*; (3).

Assistant Professor WILEY

*Prerequisite:* Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 27, 28, 51.

**53. Railroad Surveying.**—First eleven weeks of course 51, for juniors in municipal and sanitary engineering. *I*; (3).

Assistant Professor SMITH

*Prerequisite:* Civil Engineering 27, 28.

**57. Stream Flow.**—Hydraulics of rivers and smaller streams; instruments and methods of obtaining climatological data and of measuring stream flow; use of current meter, float, weir, etc., for measuring velocity and discharge; solution of problems from field data; measurement of drainage areas and estimation of discharge. *I*; (3).

Assistant Professor PICKELS

*Prerequisite:* Civil Engineering 28.

**58. Graphic Statics.**—Determination of stresses in roof trusses and mine structures. (For students in mining engineering.) *II*; (2).

Professor ELLIS

*Prerequisite:* Theoretical and Applied Mechanics 20, 25.

**60. Structural Stresses.**—The determination of stresses in roofs, bridges, and steel-skeleton buildings, by algebraic and graphic processes. *II*; (4).

Professor ELLIS, Mr. CARRIER

*Prerequisite:* Mathematics 2, 4, 6; Theoretical and Applied Mechanics 20, 21, 29; General Engineering Drawing 1, 2.

**62. Structural Details.**—Design of details for roofs, bridges, and steel-frame buildings; detail drawings and shop bills. *II*; (2).

Mr. CARRIER

*Prerequisite:* Registration in Civil Engineering 60.

**70. Seminar.**—Preparation, reading, and discussion of papers on engineering topics. Each student presents one major and two minor papers on assigned topics, and participates in the discussion of papers by others. *II*; (1).

Professor BAKER

*Prerequisite:* Full junior standing in civil engineering.

**76. Surveying.**—(For ceramic engineering students.) Plane and topographic surveying; adjustment and use of the transit, level, and plane-table; areas and volumes; map and profile construction; land surveying; contours; differential and profile leveling. *II*; (2).

*Prerequisite:* Mathematics 4; General Engineering Drawing 1, 2; Physics 1a-1b, 3a-3b.



**77. Masonry Construction.**—Discussion of the materials of masonry construction, stone, brick, lime, cement; making, using, and testing of plain concrete; and laying of brick and stone masonry, cost and strength; foundations of buildings and bridges; masonry structures, bridge piers and abutments, retaining walls, box and arch culverts, voussoir and elastic arches. *I*; (4).

Professor BAKER

*Prerequisite:* Theoretical and Applied Mechanics 20, 21, 29, 10; Civil Engineering 60.

**78. Drainage Engineering.**—The present status and importance of the drainage problem; the effect of drainage on the public health; the economics of drainage; surveys and maps of drainage areas; reports on drainage projects; rainfall and run-off; the design, construction, maintenance, and cost of drainage systems; drainage by pumping; vertical drainage; methods of levying assessments for drainage benefits; the promotion of drainage projects; flood protection; channel improvement; the design, construction, and maintenance of levees; the bridging of drainage ditches. *I*; (2). Assistant Professor PICKELS

*Prerequisite:* Civil Engineering 27, 28, 57.

**79. Cement Laboratory Practise.**—Standard tests for hydraulic cement and concrete aggregate. *I*; (1).

Assistant Professor WILEY

*Prerequisite:* Theoretical and Applied Mechanics 20, 21, 29; senior standing.

**80. Engineering Contracts and Specifications.**—Engineering relations, the law of contracts; general and technical clauses used in engineering specifications. Engineering ethics. The relation of the engineer to industrial, financial, and governmental problems. *II*; (2).

Professor NEWELL, Professor BAKER

*Prerequisite:* Full senior standing in the College of Engineering.

**81. Theory of Reinforced Concrete.**—Reinforced concrete beams, slabs, and columns. *I*; (2).

Professor ELLIS

*Prerequisite:* Full senior standing in engineering.

**82. Reinforced Concrete Design.**—Plain and reinforced concrete structures; design of retaining wall, girder and slab bridge; and elastic arch. *II*; (4).

Associate Professor WILSON

*Prerequisite:* Civil Engineering 81.

**83. Bridge Design.**—Determination of types and lengths of spans; stresses and sections of a plate girder and a truss span; stress sheet, general design drawings, and estimate of weights. (For railway civil engineers.) *I*; (3). Associate Professor WILSON

*Prerequisite:* Civil Engineering 60, 62.

**84. Engineering Functions.**—Relation of the engineer to his employer, private, corporate, or public; responsibility of the engineer as inspector, designer, supervisor of labor, agent, or arbitrator; functions in valuation proceedings, in investigations, etc. *II*; (2).

Professor NEWELL, Professor BAKER

*Prerequisite:* Full junior standing.

**85. Steel Bridge Design.**—An expansion of course 83. *I*; (5).

Associate Professor WILSON

*Prerequisite:* Civil Engineering 60, 62.

**86. Public Service Engineering.**—The engineer in public employment; organization of work under city, county, state, and federal administration; public improvements; methods of financing; preparing plans and considering the public welfare, including bridges, parks, recreation grounds, city planning, etc. *II*; (3). Assistant Professor SMITH

*Prerequisite:* Full junior standing.

**87. Advanced Bridge Analysis.**—Continuous, draw, cantilever, and metal-arch bridges. *I*; (2). Professor ELLIS

*Prerequisite:* Civil Engineering 60, 62; and registration in Civil Engineering 83 or 85.

**89. Hydro-Economics.**—The occurrence of water in nature; its conservation, regulation, and use for power and in industries; irrigation, drainage, transportation, domestic supply; the legal title to the use of water. *I*; (2). Professor NEWELL

*Prerequisite:* Senior standing.

**93. Highway Design.**—Township, county and state road systems; city streets; choice of pavement types; principles of design, preparation of plans, specifications, and estimates of cost. *I*; (3). Assistant Professor WILEY

*Prerequisite:* Civil Engineering 52; Theoretical and Applied Mechanics 21, 29.

**94. Highway Administration.** The relation of road and street improvement to social and economic welfare; governmental units and forms as related to roads and streets; state, county, and city highway departments; highway and local improvement laws; traffic regulations; taxation and methods of financing country roads and city pavements. *II*; (3). Assistant Professor WILEY

*Prerequisite:* Senior standing in civil engineering.

**95. Plain Concrete.**—Standard tests for Portland cement; origin, preparation and characteristics of different aggregates; field and laboratory examination and tests; theories of proportioning; effect of impurities, quantity of water, and methods of handling and curing. Laboratory practise. *I*; (2). Assistant Professor WILEY

*Prerequisite:* Senior standing in civil engineering.

**96. Road Materials.**—Origin, preparation, and characteristics of road building materials; examination and tests of both bituminous and non-bituminous materials; interpretation of results; specifications; inspection. Laboratory practise. *II*; (2).

Assistant Professor WILEY, Mr. BAUER

*Prerequisite:* Civil Engineering 52, 95. Students who expect to take Civil Engineering 96 are urged to take Geology 43 or its equivalent in the junior year.

**97-98. Thesis.**—A problem in investigation or design, subject to the approval of the head of the department. Only students of high standing are permitted to take a thesis. *I*; (1): *II*; (2 or 3).<sup>1</sup>

*Prerequisite:* Full senior standing in civil engineering.

**99. Inspection Trip.**—A three days' trip to study various industries and engineering projects including industrial plants, bridges, pavements, railways, and buildings, usually in and about Chicago. *I*; (no credit.)

*Prerequisite:* Senior standing.

#### Courses for Graduates.

Entrance on graduate work in civil engineering presupposes the full undergraduate course in that subject.

**101. Irrigation and Drainage.**—The survey, examination, construction, maintenance, and operation of works for irrigation and drainage of agricultural lands; water rights; and reconstruction problems. *Twice a week*; *I, II*; ( $\frac{1}{2}$  unit). *Time to be arranged.*

Professor NEWELL

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

**103. Highway Construction.**—Machinery and methods of handling materials. Contractors' organization and official control. *Twice a week; I, II; (1 unit). Time to be arranged.* Professor BAKER

**106. Reinforced Concrete Design.**—Elastic theory of arches. *Twice a week; I, II; (1 unit or more). Time to be arranged.* Professor ELLIS

**107. Bridge Engineering.**—Deflections; the statically indeterminate frame; swing bridges and arches; special graphic methods; suspension bridges; secondary stresses; impact. *Two or three times a week; I, II; (1 unit or more.) Time to be arranged.* Professor ELLIS

**124. Steel Building Construction.**—Steel framing of fire-proof office buildings, hotels, and industrial buildings; wind bracing; eccentrically loaded columns; analysis of special details; erection methods and costs. *Twice a week; I, II; (1 unit or more). Time to be arranged.* Professor ELLIS

#### Summer Session Course

**S106. Reinforced Concrete Design.**—Elastic theory. Full time. (2 units). Professor ELLIS

#### THE CLASSICS

HERBERT JEWETT BARTON, A. M., *Professor, Chairman*

CHARLES MELVILLE MOSS, Ph.D., *Professor, Emeritus*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor*

ARTHUR STANLEY PEASE, Ph.D., *Professor*

HOWARD VERNON CANTER, Ph.D., *Associate Professor*

RODNEY POTTER ROBINSON, A.M., *Assistant*

JOHN CALVIN WATSON, Ph.D., *Honorary Lecturer in the Classics*

*Cooperating:*

ROLLIN H TANNER, Ph.D., *Professor of Greek, Dennison University (Summer Session)*

#### GREEK

**Major:** 20 hours, excluding Greek 1a-1b.

**Minors:** 20 hours chosen from foreign languages (Latin being especially recommended), English literature, history, and philosophy.

#### LATIN

**Major:** 20 hours, excluding Latin 1a, 1b, and 20.

**Minors:** 20 hours chosen from foreign languages (Greek being especially recommended), English literature, history, and philosophy.

#### CLASSICS

**Major:** 20 hours in Greek and Latin, excluding Greek 1a-1b, 16, and 20, and Latin 1a, 1b, 13, 19, and 20. At least six hours shall be carried in the secondary language and the remaining hours in the primary language.

**Minors:** 20 hours chosen from foreign languages, English literature, history, and philosophy.

#### GREEK

#### Courses for Undergraduates

The courses in translation naturally follow each other in this sequence: 1a-1b, 3, 4, 5 or 7, 6 or 8. Courses 1a-1b, 3, and 4 are intended for students who cannot present Greek for entrance to the University, but who desire to commence the study of the language. Course 16 is open to sophomores, juniors, and seniors; 20 is open to those who have completed one year in history or classics.

**1a-1b. Grammar and Reader.**—First semester: Attic forms; reading of simple prose. Second semester: Xenophon's *Anabasis*. Book I. *I, II*; (4). Professor OLDFATHER

**2a-2b. New Testament Greek.**—Reading of selections and lectures on the canon and text. *I, II*; (2). Associate Professor CANTER

*Prerequisite:* Greek 1a-1b or an equivalent.

**3. Second Year Greek.**—Xenophon's *Anabasis*, Books II-IV; Grammatical drill. *I*; (3). Mr. ROBINSON

*Prerequisite:* Greek 1.

**4. Second Year Greek.**—Homer, six Books of the *Iliad*. *II*; (3). Mr. ROBINSON

*Prerequisite:* Greek 3.

**5. Herodotus.**—Selections. *I*; (3). Professor PEASE

*Prerequisite:* Greek 4.

**8. Plato.**—Selected dialogues, including the *Apology* and *Phaedo*.

Professor PEASE

*Prerequisite:* Greek 4.

### GREEK LIFE AND HISTORY

Course 16 presupposes no knowledge of Greek and is open to all students except freshmen.

**16. The Life of the Ancient Greeks.**—Lectures illustrated by photographs and slides; prescribed readings. *I*; (1). Professor PEASE

**20. Greek History.**—(This course is described by the department of history as History 5.) *I*; (3). Professor OLDFATHER

*Prerequisite:* One course in history or the classics. Not open to freshmen.

**54. Comparative Literature.**—See English 54.

### Courses for Graduates

**105. Plato and Aristotle.**—Selections from the political and ethical writings. *Twice a week*; *I, II*; (1 unit). Professor OLDFATHER

**106. Greek Drama.**—Lectures; reading and discussion of selected plays from the great dramatists. *Twice a week*; *I, II*; (1 unit). Professor PEASE

**110. Bibliography and Criticism.**—(Thesis course; the same as Latin 110). *Once a week*; *I, II*; (1 unit). Professors OLDFATHER and PEASE

### LATIN

#### Courses for Undergraduates

**1a-1b. Ovid and Virgil.**—First Semester: Selections from the *Metamorphoses*. Second semester: Selections from the *Aeneid*. *I, II*; (4). Not offered. Mr. ROBINSON  
*Prerequisite:* Three entrance units in Latin, or Latin 6.

**2a-2b. Livy, Plautus, and Terence.**—First semester: Selections from Livy, the story of Hannibal. Second semester: The *Captivi* and *Rudens* of Plautus and the *Phormio* of Terence. *I, II*; (4). Professor BARTON

*Prerequisite:* Four entrance units in Latin.

**3. Sallust and Cicero.**—Selections from the *Fugurthine War*; *De Senectute*. *I*; (3). Associate Professor CANTER

*Prerequisite:* Latin 2a-2b.

4. **Horace and Catullus.** Selections. *II*; (3). Associate Professor CANTER  
*Prerequisite:* Latin 2a-2b.
5. **Latin Composition.**—Grammatical drill and practise in the simpler forms of expression. *II*; (1). Associate Professor CANTER  
*Prerequisite:* Latin 1a-1b or its equivalent.

#### Courses for Advanced Undergraduates and Graduates

8. **Tacitus.**—*The Annals*; books I-VI. *I*; (3). Professor PEASE  
*Prerequisite:* 12 hours in Latin.
16. **Martial and Suetonius.**—Selections. *II*; (3). Professor PEASE  
*Prerequisite:* 12 hours of Latin.

#### Roman Life, Literature, and History

(Courses 13 and 20 presuppose no knowledge of Latin; open to all students except freshmen).

54. **Comparative Literature.**—See English 54.
13. **Roman Life.**—The family, organization of society, education, marriage, amusements, with some attention to the monuments. Lectures and assigned readings illustrated by photographs, slides, and the Classical Museum collections. *II*; (1). Professor BARTON
19. **Roman History.**—(This course is described by the department of history as History 6). Not open to freshmen. *II*; (3). Professor OLDFATHER  
*Prerequisite:* One course in history or the classics.
20. **Mythology.**—Lectures and assigned readings. *I*; (2). Professor BARTON
9. **Teachers' Course.**—The purpose and methods of preparatory Latin instruction; the teacher's preparation. *II*; (2). Professor BARTON  
*Prerequisite:* Eighteen hours in Latin. A portion of this requirement may be waived in the case of those who have taught Latin.
10. **Latin Composition.**—The leading principles; imitation of assigned models. *I*; (2). Professor BARTON  
*Prerequisite:* Twelve hours in Latin, including Latin 5a or its equivalent.

#### Courses for Graduates

Students desiring to take graduate work in Latin should have had at least three years of college Latin in addition to the Latin presented to meet entrance requirements.

102. **Roman Oratory.**—*Twice a week*; *I*; (1 unit). Associate Professor CANTER
103. **Cicero.**—*De Natura Deorum* and *De Divinatione*. *Twice a week*; *II*; (1 unit). Professor PEASE
104. **Latin Paleography.**—*Twice a week*. *I*; (1 unit). Professor PEASE
108. **Tacitus.**—*The Histories*. *Twice a week*. *II*; (1 unit). Professor BARTON
109. **Virgil.**—*Twice a week*. *I*; (1 unit). Professor BARTON
110. **Bibliography and Criticism.**—(Thesis course; the same as Greek 110). *Once a week*. *I, II*; (1 unit). Professors OLDFATHER, PEASE, and others
114. **Caesar.**—*Twice a week*; *II*; (1 unit). Professor OLDFATHER

## Summer Session Courses

## Courses for Undergraduates

**S1. High School Latin.**—Representative readings from the second, third, and fourth years, with discussions of material as reflecting Roman public and private life, political and religious ideals; organizing and presenting the materials of Latin instruction in the second, third, and fourth years. Professor BARTON

**S2. Ovid.**—Readings in the *Metamorphoses*; the place of Ovid in Latin literature; practise in sight translation. (1½). Professor OLDFATHER

*Prerequisite:* Two or three years of high-school Latin.

**S3. Terence.**—The *Phormio* and the *Adelphi*; verse, syntax, literary values. (1½). Professor OLDFATHER

*Prerequisite:* Three or four years of high-school Latin.

**S4. First Year Latin.**—The essentials of the first year's work; problems arising for student and instructor; methods of study and presentation. (1½). Professor BARTON

## Courses for Undergraduates and Graduates

**S14. Cæsar.**—The times and methods of research in Cæsar; the historical complex in which his writings were published and the motives governing their production; the literary school to which Cæsar belonged and the literary aim for which he strove. Illustrative readings from the *Bellum Civile*. *Twice a week*. Professor OLDFATHER

*Prerequisite:* Three years of college Latin.

## COMMERCIAL LAW

(SEE BUSINESS ORGANIZATION AND OPERATION.)

## COMPARATIVE PHILOLOGY

LEONARD BLOOMFIELD, Ph.D., *Assistant Professor of Comparative Philology and German*

## For Advanced Undergraduates and Graduates

**1. Introduction to the Study of Language.**—Phonetics; the development of forms of speech; dialects and the spread of languages; the study and teaching of language. *I; (3)*. Assistant Professor BLOOMFIELD

*Prerequisite:* The consent of the instructor.

**3. Elementary Sanskrit.**—Reading and grammar. *I; (3)*.

Assistant Professor BLOOMFIELD

*Prerequisite:* The consent of the instructor.

**4. Elementary Sanskrit.**—(Continuation of Comparative Philology 3.) *II; (3)*.

Assistant Professor BLOOMFIELD

*Prerequisite:* Comparative Philology 3.

## Courses for Graduates

**101. Comparative Philology of the Indo-European Languages.**—Attention will be given chiefly to Greek, Latin, and the Germanic languages, including English. *II; (2)*. Assistant Professor BLOOMFIELD

*Prerequisite:* The consent of the instructor.

## DAIRY HUSBANDRY

HARRISON AUGUST RUEHE, M.S., *Assistant Professor, Dairy Manufactures, Acting Head of the Department*

HARRY ALEXIS HARDING, Ph.D., *Professor, Dairy Bacteriology*

WILBUR JOHN FRASER, M.S., *Professor, Dairy Farming*

WALTER LEE GAINES, Ph.D., *Professor, Milk Production*

MARTIN JOHN PRUCHA, Ph.D., *Associate Professor, Dairy Bacteriology*

ERNEST MCCHESENEY CLARK, B.S., *Assistant Professor, Dairy Production*

OLIVER RALPH OVERMAN, Ph.D., *Assistant Professor, Dairy Chemistry*

WILLIAM WODIN YAPP,<sup>1</sup> M.S., *Associate, Dairy Husbandry*

LEIGHTON J TRUE, B.S., *Associate, Dairy Manufactures*

MASON HERBERT CAMPBELL, M.S., *Associate, Dairy Husbandry*

ARTHUR SAMUEL AMBROSE, B.S., *Associate, Dairy Manufactures*

CHRIS SIMEON RHODE, B.S., *Instructor, Dairy Husbandry*

BENJAMIN ANDREW STIRITZ, B.S., *Assistant, Dairy Manufactures*

## Courses for Undergraduates

A set of courses designed to meet the needs of those especially interested in dairy manufactures is now being arranged. Students looking toward specialization in Dairy Manufactures are advised to take as promptly as possible the fundamental courses underlying courses in Dairy Manufactures, giving particular attention to: Economics 1, Accountancy 1a-1b, Physics 7a-7b, 8a-8b, Bacteriology 1, Chemistry 9-9c. They are also advised to consult the Dairy Department before registration.

**1. Milk Testing.**—Babcock test; tests for purity and adulteration; lactometer; tests for acidity, moisture, and salt; qualitative separation of milk into its components, and a brief study of the components; significance of the composition of milk. Lectures; recitations; problems; laboratory. *I* or *II*; (3). Assistant Professor OVERMAN

**2. Dairy Cattle.**—Selection, feeding, and management; dairy type and its relation to production; herd improvement; history, characteristics, and adaptability of breeds; feeding for growth and production; herd management; milking machines; barn arrangement. Lectures; recitations; laboratory. *II*; (5). Professor GAINES, Mr. CAMPBELL  
*Prerequisite:* Dairy Husbandry 24, Animal Husbandry 8 and 21, or their equivalent.

**4. Ice Cream Making.**—Mixing and freezing of ice cream, sherbets, and other frozen products, and the physical principles involved; types of freezers; flavoring materials, fillers, and binders; ice cream standards; the theory and practise of artificial refrigeration, and its use in the ice cream plant. This course is accompanied by one inspection trip, costing from \$15.00 to \$20.00. *II*; (3). Assistant Professor RUEHE, Mr. AMBROSE

*Prerequisite:* Dairy Husbandry 1 or 5.

**5. Composition of Dairy Products.**—Rapid commercial tests; qualitative and quantitative study; the composition of milk proteins and their significance; composition, chemical and physical properties of milk fat and factors influencing them. Lectures; recitations; problems; assigned reading; laboratory. *II*; (3). Assistant Professor OVERMAN

*Prerequisite:* Chemistry 13a. It is desirable that students registering in this course take Chemistry 9 or its equivalent, which after 1919-20 will be made a prerequisite.

**7. Creamery Buttermaking and Factory Management.**—Types of creameries; raw product received; grading; pasteurization; use of commercial starters; ripening, churning, salting, and working butter; butter composition and scoring; explanation of various physical phenomena in making, packing, and storing of butter; creamery by-products;

<sup>1</sup> On leave.

refrigeration. Creamery location and plans; business management and accounting in various types of creameries. This course is accompanied by one inspection trip costing from \$15.00 to \$20.00. Lectures; laboratory. *II*; (5).

Assistant Professor RUEHE, Mr. AMBROSE

*Prerequisite:* Dairy Husbandry 1.

**8. City Milk Supply.**—A study of the problems involved in the production, transportation, plant management, and distribution of milk for city supplies. Lectures, laboratory, and assigned readings. *II*; (2).

Professor HARDING, Mr. TRUE

*NOTE*—It is suggested that course 10 be taken previous to this course.

**10. General Dairy Bacteriology.**—A consideration of the relation of bacteria to market milk and milk products including milk beverages, butter, cheese, condensed milk, and ice cream. Lectures, laboratory, assigned readings. *I*; (4).

Associate Professor PRUCHA

*Prerequisite:* Bacteriology 1 or 5; junior standing.

**20. Economic Problems in Dairy Farming.**—A proper balance of the different factors of production on a dairy farm; its bearing on profits; the size of farms; farm labor; the relation of the people to the land. *I*; (2).

Professor FRASER

*Prerequisite:* Junior standing, 3 hours in Dairy Husbandry, and Economics 1 or 2.

**21. Systems of Dairy Farming.**—Relation of the cow and the herd to profits; how to establish and perpetuate a dairy herd of the highest efficiency; economy crops and rations on a dairy farm; systems of cropping; the organization of a dairy farm; location and arrangement of buildings and lots; farm accounts, records, and inventories; markets; care and disposal of milk at the greatest profit. A three-day inspection trip is required in this course, the expense of which is about \$17. *II*; (5).

Professor FRASER

*Prerequisite:* Dairy Husbandry 2 and 20.

**23a-23b. Investigation and Thesis.**—*I, II*; (5-10).<sup>1</sup>

Professor HARDING, Professor FRASER, Professor GAINES, Assistant Professor OVERMAN

**24. Elementary Production and Manufacture of Dairy Products.**—Herd selection and management; the testing and manufacture of the various dairy products. Required of all freshmen in the general curriculum in agriculture. *I* or *II*; (3). Mr. TRUE and others

### Courses for Graduates

**101. Economic Milk Production.**—Efficiency of dairy farms; factors influencing profits. *Twice a week; I, II; (½ to 2 units). Time to be arranged.* Professor FRASER

**104. Scientific Readings.**—Discussion of bacteriological problems based on selected German or French texts. Recommended for first and second year students. *Once a week; I, II; (½ unit). Time to be arranged.* Professor HARDING, Associate Professor PRUCHA

**105. Bacteriological Literature.**—Each student is required to prepare and deliver an acceptable course of lectures. Recommended for second-year and third-year men. *Once a week, or once in two weeks; I, II; (½ or 1 unit).*

Professor HARDING

**106. Research on Assigned Problems.**—Open to students whose development permits their undertaking problems of dairy bacteriology with only general supervision. *I, II; (½ to 2 units).*

Professor HARDING, Associate Professor PRUCHA

**107. Dairy Chemistry.**—Assigned problems.—*Once a week; I, II; (1 unit).*

Assistant Professor OVERMAN

**108. Physiology of Milk Production.**—Physiological factors involved in the growth of the mammary gland, the secretion of milk, and in milking. Hormone and nervous mechanisms. Study of production records. Literature. Assigned problems. Experimental. Lecture. Conference. *I, II; (½ to 2 units).*

Professor GAINES

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which he intends to take the course, e. g., not 2-5 but 2, or 3, or 4, or 5.



## DRAWING, GENERAL ENGINEERING

HARVEY HERBERT JORDAN, B.S., *Assistant Professor*

FRANCIS MARION PORTER, M.S., *Associate*

RANDOLPH PHILIP HOELSCHER, B.S., *Instructor*

JAMES EARL ROBERTSON, B.S., *Instructor*

WILLIAM JOSEPH BINGEN, C.E., *Instructor*

RUSSELL A WATT, B.S., *Instructor*

ERNEST LANGFORD, B.S., *Instructor*

BERNARD SMITH, B.S., M.E., *Instructor*

CHARLES LYMAN ELLIS, A.B., *Instructor*

SAMUEL OMANSKY, *Student Assistant*

LYLE HUGO GALLIVAN, *Student Assistant*

HARRY GFORGE HAAKE, *Student Assistant*

ARNOLD ALINDER LUNDGREN, *Student Assistant*

DAVID WARD PEASE, *Student Assistant*

CLOYDE MOFFETT SMITH, *Student Assistant*

CARL ERNEST SWANSON, A.B., *Student Assistant*

**1. Elements of Drafting.**—Lettering; isometric oblique and perspective drawing, orthographic projection; machine sketching; working drawings; 12 plates from specifications and 6 plates from models, with tracings. Dimensioned sketches from parts of machines; tracings duplicated in blue-print. Time sketches. (More advanced work is given to students who have had high-school drawing.) *I* or *II*; (4).

The department staff

**2. Descriptive Geometry.**—Point, line, and plane; surfaces; intersections and developments (for architects, perspective). Problems; recitations. Three drawing room plates, 2 hours each, 5 problems per plate, and 2 home plates, 5 problems each, a week. *I* or *II*; (4).

The department staff

*Prerequisite:* Solid geometry, college algebra, plane trigonometry.

**21. Advanced Descriptive Geometry.**—Cylinder, cone, convolute, and warped surface; intersections of surfaces in pairs, and by planes; planes tangent; developable and approximately developable surfaces and doubly curved and complex surfaces of revolution. *II*; (2).

Mr. PORTER

*Prerequisite:* General Engineering Drawing 1, 2.

## ECONOMICS

(See also BUSINESS ORGANIZATION AND OPERATION and TRANSPORTATION.)

DAVID KINLEY, Ph.D., LL.D., *Professor*

NATHAN AUSTIN WESTON, Ph.D., *Professor, Acting Head of Department*

MAURICE HENRY ROBINSON, Ph.D., *Professor*

ERNEST LUDLOW BOGART,<sup>1</sup> Ph.D., *Professor*

CHARLES MANFRED THOMPSON, Ph.D., *Professor*

SIMON LITMAN, Dr.Jur.Pub.et Rer.Cam., *Professor*

MERLIN HAROLD HUNTER, Ph.D., *Assistant Professor*

GORDON WATKINS, Ph.D., *Assistant Professor*

PEMBROKE HOLCOMB BROWN, A.M., *Assistant*

CARLTON MONTA HOGAN, A.B., *Assistant*

ROGER WENDELL VALENTINE, A.B., *Assistant*

<sup>1</sup> On leave of absence.

MAX JUDD WASSERMAN, A.B., *Assistant*

EARL JOYCE MILLER, A.B., *Assistant*

ANNA EVELYN WATKINS, A.B., *Assistant*

**Major:** For students in the College of Liberal Arts and Sciences twenty hours, made up of Economics 1 and any other courses in economics for which it is a prerequisite.

**Minor:** Twenty hours in any one or two of the following subjects: history, philosophy, political science, and sociology.

Economics 7, 22, and 26 are open to freshmen without previous requirement. Economics 27 is also open to freshmen, but requires credit in course 26 or an approved high-school course in commercial geography.

Economics 1 and 3 are the fundamental courses in economics. They are prerequisites for most of the advanced courses and students expecting to do advanced work in economics should take them both in their sophomore year.

Economics 2, tho open to all students who have had 30 hours of university work, is primarily for students in the Colleges of Agriculture and Engineering and in courses in home economics, chemistry, chemical engineering, and other sciences. It may not be used as a prerequisite for advanced courses in economics except as indicated.

### Courses for Undergraduates

**1. Principles of Economics.**—(See note preceding the description of courses in economics above.) *I*; (5).

Professor ROBINSON, Professor THOMPSON, Professor WESTON, Assistant Professor HUNTER, Assistant Professor WATKINS, Mr. BROWN, Mr. HOGAN, Mr. VALENTINE, Mr. WASSERMAN.

*Prerequisite:* Thirty hours of university work.

**2. Principles of Economics.**—(See note preceding the description of courses in economics above.) *II*; (3).

Assistant Professor HUNTER, Assistant Professor WATKINS  
*Prerequisite:* Thirty hours of university work.

**3. Money and Banking.**—(See note preceding the description of courses in economics above.) *II*; (3).

Professor WESTON, Assistant Professor HUNTER, Assistant Professor WATKINS, Mr. BROWN, Mr. WASSERMAN.

*Prerequisite:* Economics 1.

**22. The Economic History of the United States.**—*Open to freshmen only.* *II*; (3).

Professor THOMPSON, Mr. BROWN, Mr. HOGAN, Mr. VALENTINE, Mr. MILLER, Mr. WASSERMAN.

**26. Economic Resources.**—Environment influences affecting commercial and industrial development; products and industries of different countries, especially of the United States. *Open to freshmen and sophomores only.* *I*; (3).

Professor LITMAN, Mr. BROWN, Mr. VALENTINE, Mr. HOGAN, Mr. WASSERMAN, Mr. MILLER, Mrs. WATKINS.

**33. Economics of Insurance.**—Historical development and economic aspects. *I*; (2).

Professor ROBINSON

*Prerequisite:* Economics 1 and 3.

**34. Property Insurance.**—Fire, marine, title, and credit insurance and corporate suretyship. *II*; (2).

Professor ROBINSON

*Prerequisite:* Economics 1 and 3.

## Courses for Advanced Undergraduates and Graduates

4. **Financial History of the United States.—II; (3).** Assistant Professor HUNTER  
*Prerequisite:* Economics 1 and 3; senior standing.
5. **Public Finance.—I; (3).** Assistant Professor HUNTER  
*Prerequisite:* Economics 1.
8. **The Money Market.—II; (2).** Professor WESTON  
*Prerequisite:* Economics 1 and 3, Business Organization and Operation 1, senior standing.
9. **Practical Banking.—Banking practise in the United States. I; (2).** Professor WESTON  
*Prerequisite:* Economics 1 and 3; Business Organization and Operation 1; senior standing.
10. **Corporation Management and Finance.—II; (3).** Professor ROBINSON  
*Prerequisite:* Economics 1 and 3.
11. **Industrial Consolidation.—The growth of monopoly. I; (3).** Professor ROBINSON  
*Prerequisite:* Economics 10.
- 12a-12b. **Labor Problems.—I, II; (3).** Assistant Professor WATKINS  
*Prerequisite:* Senior standing, Economics 1, and three additional hours in economics for which Economics 1 is a prerequisite. *Or:* Senior standing and Economics 1 for students whose major is one of the social sciences.
19. **Economic History of the United States, 1820-1860.—I; (2).** Professor THOMPSON  
*Prerequisite:* Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.
20. **Economic History of the United States Since 1860.—II; (2).** Professor THOMPSON  
*Prerequisite:* Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.
21. **Socialism and Economic Reform.—II; (2).** Assistant Professor WATKINS  
*Prerequisite:* Economics 1 and 3. Students who have had 6 hours in history and Sociology 1 and present a statement from the department of sociology showing that they are taking sociology as a major may be admitted without Economics 3.
28. **Mechanism and Technic of Domestic Commerce.—Wholesale and retail organizations; markets, fairs, auctions, stock and produce exchanges; department, mail-order, and cooperative stores; commercial travelers; commercial competition; modern advertising; mercantile credit. I; (3).** Professor LITMAN  
*Prerequisite:* Economics 1 and 3.
29. **Foreign Commerce and Commerical Politics.—II; (2).** Professor LITMAN  
*Prerequisite:* Economics 28.
31. **Organization of Foreign Commerce.—Exporting and importing; ocean transportation; line and charter traffic; institutions for furthering export trade; the consular service; entry of goods; the work of the custom house. II; (3).** Professor LITMAN  
*Prerequisite:* Economics 28.
- 61a-61b. **Economic Theory.—I, II; (2).** Professor THOMPSON  
*Prerequisite:* Economics 1, a course in economics for which Economics 1 is a prerequisite, and junior standing.

## Courses for Graduates

Students entering on graduate work in economics must have a thoro course in the principles of the science and must also have studied some special part of the field, such as public finance or money and banking.

101. **Economic Theory.**—*Twice a week; I, II; (1 unit.) Time to be arranged.*

Professor WESTON

104. **Foreign Commerce of the United States.**—*Twice a week; I, II; (1 unit.) Time to be arranged.*

Professor LITMAN

110. **Investments.**—Nature, character, and functions of investments. Classes, including direct investments and securities of various types. Methods of judging investments. State control. *Twice a week; I, II; (1 unit.) Time to be arranged.*

Professor ROBINSON

118. **Seminar.**—*I, II. Time to be arranged.*

Members of staff

## Summer Session Courses

## Courses for Undergraduates

S2. **Principles of Economics.**—(3).

Professor THOMPSON

*Prerequisite:* One year of university work or (for teachers) the permission of the instructor.

*Equivalent:* Economics 2.

S3. **Money and Banking.**—Money; monetary system of the United States; money and prices; credit and banking; domestic and foreign exchange; banking system of the United States compared with other banking systems. (2½).

Dr. HUNTER

*Prerequisite:* Five hour course in the principles of economics or the permission of the instructor.

*Equivalent:* Economics 3 when used as a prerequisite.

## Courses for Advanced Undergraduates and Graduates

S5. **Public Finance.**—Public expenditures; public revenues, especially taxes; justice in taxation; federal, state, and local taxes; war finance. (2½).

Dr. HUNTER

*Prerequisite:* Five hour courses in the principles of economics, junior standing, or the permission of the instructor.

S9. **Advanced Banking.**—Recent banking development in the United States; present problems and practise. Students should provide themselves with a copy of Agger's *Organized Banking*. (2).

Professor WESTON

*Prerequisite:* Economics 1 and 3, junior standing.

*Equivalent:* Economics 9.

S61. **Economic Theory.**—(2).

Professor THOMPSON

*Prerequisite:* Economics 1 or 2 and any other course in economics for which Economics 1 or 2 is a prerequisite, junior standing, the permission of the instructor.

*Equivalent:* Economics 61.

## EDUCATION

CHARLES ERNEST CHADSEY, Ph.D., *Dean of the College of Education and Director of the Summer Session (1920)*

HORACE ADELBERT HOLLISTER, A.M., *Professor, High School Visitor*

BURDETTE ROSS BUCKINGHAM, Ph.D., *Professor and Director of the Bureau of Educational Research*

EDWARD HERBERT CAMERON,<sup>1</sup> Ph.D., *Professor*

WALTER SCOTT MONROE, Ph.D., *Associate Professor, and Assistant Director of the Bureau of Educational Research*

ROBERT FRANCIS SEYBOLT,<sup>1</sup> Ph.D., *Associate Professor*

CLIFF WINFIELD STONE,<sup>2</sup> Ph.D., *Acting Professor*

PAUL EVERETTE BELTING, Ph.D., *Assistant Professor*

ARLIE GLENN CAPPS, A.M., *Lecturer*

LEWIS WARD WILLIAMS, A.M., *Instructor, and Secretary of the Appointments Committee*

MARTIN JAMES STORMZAND, A.B., *Instructor*

MRS. CHARLES HUGHES JOHNSTON, A.B., *Assistant*

VELDA C BAMESBERGER, A.M., *Assistant in the Bureau of Educational Research*

DORA KEEN, A.M., *Assistant in the Bureau of Educational Research*

J ORIN POWERS, A.M., *Assistant*

WERRETT WALLACE CHARTERS, Ph.D., *Professor and Dean of the College of Education University of Illinois (Summer Session)*

DAVID SPENCE HILL, Ph.D., *Professor (Summer Session)*

JULIAN E BUTTERWORTH, Ph.D., *Professor and Dean of the College of Education, University of Wyoming (Summer Session)*

JOHN ALFORD STEVENSON, Ph.D., *Assistant Professor and Director of the Summer Session (1919).*

JAMES MICHAEL O'GORMAN, A.M., *Lecturer (Summer Session)*

*Cooperating:*

BOYD HENRY BODE, Ph.D., *Professor of Philosophy*

**Major:** 20 hours including educational psychology, technic of teaching, a teachers' course in the subject of specialization for teaching, principles of secondary education, and teaching.

**Minor:** 20 hours made up from either (a) courses in any one or two university subjects represented in the high-school program; or (b) courses in any or two of the following departments: psychology, sociology, philosophy, and political science; or (c) from one subject in (a) and one in (b).

For the year 1919-20 the teachers' courses offered in the respective departments in the College of Liberal Arts and Sciences and the School of Music will be accepted, in the case of seniors, in the College of Education for the teachers' courses which will be organized later in the College of Education.

Students may substitute Education 1, Introduction to Education, taken during 1919-20, for educational psychology in fulfilling the requirements for the major in education.

The courses of the department fall into two general divisions; courses primarily for professional training and courses more specifically designed for general culture. The first division includes courses 1, 4, 6, 10, 15, 18, 20, 27, 41, 42, 43, 45, 101, 102, 106, 112, 119, and 125. The second division, courses 2, 5, and 13.

<sup>1</sup>Second semester, 1919-20.

<sup>2</sup>First semester, 1919-20.

## Introductory Courses

**1. Introduction to Education.**—The American public-school system; principles and aim of education; biological basis, heredity, and environment; instinct, habit, and habit-formation; memory, and the higher mental processes. (This course is by Senate ruling required of all students who are given the official indorsement of the Appointments Committee for teaching positions in secondary schools.) *I* or *II*; (4). Mr. STORMZAND

*Prerequisite:* Junior standing. (Psychology 1 is desirable.)

**2. History of Education.**—History of the evolution of educational theory, institutions, and practise. *II*; (3). Associate Professor SEYBOLT

*Prerequisite:* Junior standing.

## Courses for Advanced Undergraduates and Graduates

**4. Problems of Educational Administration.**—Present tendencies as exemplified in the school systems of typical cities and states; recent educational experiments in administration. *I*; (3). Dean CHADSEY

*Prerequisite:* Education 1, 2.

**5. Comparative Education.**—Organization, administration, and basic national ideals of the school systems of the United States, Germany, England, Denmark, Norway, Sweden, Holland, Japan, and France, with reference to secondary education and to the training of teachers. *II*; (3). Dean CHADSEY

*Prerequisite:* Education 1.

**6. Principles of Secondary Education.**—Evolution of high schools and of the fundamental conceptions of secondary education; proposed reorganization; relation of high schools to the state systems; legal status; articulation with the elementary school, the college, the technical school, the community, and the home; the teaching staff; reconstruction of curriculums, "controls" of instruction; direction of "student activities." This course is planned for those who expect to teach in secondary schools. *I*; (3).

Assistant Professor BELTING

*Prerequisite:* Education 1 or its equivalent and senior standing.

**10. The Technic of Teaching.**—Types of classroom exercises and preparation of teaching plans; the hygiene of instruction; classroom management; professional ethics. Observation of teaching in neighboring high schools. (This course with Education 1 is, by Senate ruling, required of all students who are given the official recommendation of the Appointments Committee for teaching positions in secondary schools.) *I* or *II*; (3).

Assistant Professor BELTING, Mr. CAPPS

*Prerequisite:* Education 1 or 25.

**17. Education.—The Teacher.**—Preparation, selection, placement agencies, requirements for certification, salary, pensions, methods of promotion in service, professional ethics. Lectures, reading, and discussions. *I, II*; (2). Mr. WILLIAMS

*Prerequisite:* Education 1 and 10.

**18. Theory of Educational Measurements.**—Theory and principles of the derivation and evaluation of educational tests. *I*; (3). Associate Professor MONROE

*Prerequisite:* Education 1 or 25.

**19. Readings in French and German Educational Literature.** *II*; (2).

Associate Professor SEYBOLT

**20a. Theory of Supervision.**—Training teachers in service; measuring educational products; qualities of merit and causes of failure in teachers; selection of teachers; organization of teachers' meetings and other agencies for improving the teaching service. *I*; (3).

Associate Professor MONROE

*Prerequisite:* Education 1, or its equivalent.

**21. Units, Scales, and Standards.**—Administration and interpretation of educational tests. The student will be made acquainted with the most important educational tests, both in the elementary and high-school field and with their standards. *II*; (3).

Associate Professor MONROE

*Prerequisite:* Education 18.

**[23. Educational Statistics.**—*I*; (3). Not given, 1919–20.

*Prerequisite:* Education 1, or its equivalent.]

**25. Educational Psychology.**—(Introductory course). Instinct; habit and the acquisition of skill; perception and memory; conception, judgment, and reasoning; applications to school subjects; lectures, readings, demonstrations. *I* or *II*; (3).

Acting Professor STONE, Professor CAMERON

*Prerequisite:* Psychology 1 or Education 1.

**[26. The Junior High School.**—*II*; (2). Not given, 1919–20.

*Prerequisite:* Education 1 or equivalent.]

**27. High-School Curriculums.**—Important historic curriculums for secondary education; modern curriculum-making; professional supervision; textbooks, apparatus, and teaching devices; the construction of curriculums for typical communities. *II*; (3).

Assistant Professor BELTING

*Prerequisite:* Education 1 or 6 (preferably both).

**28. The Project Method of Teaching.**—A course for superintendents, principals, supervisors, and teachers. Current literature; the relation of the project to curriculum organization, thinking, motivation; application of the project method; lectures, readings, and investigation of special problems. *I* or *II*; (2).

Mr. CAPPS

*Prerequisite:* Education 1 and 10.

**[41. Principles of Vocational Education.**—*I*; (3). Not given in 1919–20.

*Prerequisite:* Education 1, or an equivalent satisfactory to the instructor.]

**42. Auxiliary Education.**—The institutions and methods for the training of defectives and delinquents; the Binet-Simon tests and other methods of mental diagnosis; educational treatment of morons and of moral delinquents; methods of teaching sensory defectives (the blind and the deaf); public institutions of auxiliary education and their administration. *II*; (2).

Professor CAMERON

**43. Mental Tests.**—Laboratory drill in the technic of mental tests, including tests of sensory capacities; attention; memory; learning; suggestibility; inventiveness; systems of tests for diagnosis of mental age; general intellectual status; mental retardation. *II*; (2).

Professor CAMERON

*Prerequisite:* Education 25 or an equivalent, and the consent of the instructor.

**45. Problems in Educational Psychology.**—*I*, *II*; (1–3).

Acting Professor STONE, Professor CAMERON

*Prerequisite:* Education 25.

**50. Teaching.**—Practical experience in teaching classes. Offered only in Agriculture and Home Economics during the year 1919–20. *I*; (5); *II*; (5).

Mr. COLVIN, Mr. REID, Miss BYER

*Prerequisite:* Education 10 and senior standing.

#### Courses for Graduates.

**101. Seminar in Educational Theory.**—The philosophical basis of educational theory. *I*; (1 unit).

Professor BODE

102. Seminar in History of American Education.—II; (1 unit).

Associate Professor SEYBOLT

104. Seminar in Educational Administration.—II; (1 unit).

Dean CHADSEY

- [110. Seminar in Methods of Teaching.—I, II; (1 unit each semester). Not given, 1919–20.]

- [112. Principles of Education.—II; ( $\frac{1}{2}$  unit). Not given, 1919–20.]

- [118. Seminar in Educational Statistics.—II; (1 unit). Not given, 1919–20.]

- [119. The Elementary Curriculum.—II; (1 unit). Not given, 1919–20.]

121. Seminar in Educational Measurements.—A critical study of the derivation of typical educational tests. The students will also be required to make individual investigations and reports. II; (1 unit).

Associate Professor MONROE

*Prerequisite:* Education 18.

125. Seminar in Educational Psychology.—Psychology of school subjects. I; (1 unit).

Departmental Conference.—All graduate students majoring in education are expected to meet with the departmental staff every alternate Monday from 7 to 9 p. m. I, II; (no credit).

#### Summer Session Courses—Education and Psychology

(The content of these courses is, in general, the same as in the regular session.)

- |  |                |
|--|----------------|
| S1a. Principles of Education.—( $2\frac{1}{2}$ )     | Mr. O'GORMAN   |
| S1b. The Educational System.—( $1\frac{1}{2}$ ).     | Mr. WILLIAMS   |
| S2. History of Modern Education.—( $2\frac{1}{2}$ ). | Mr. O'GORMAN   |
| S10. Technic of Teaching.—( $2\frac{1}{2}$ ).        | Mr. CAPPS      |
| S25. Educational Psychology.—(2).                    | Professor HILL |

#### Courses for Advanced Undergraduates and Graduates

- |   |                                   |
|---|-----------------------------------|
| S4. School Organization and Administration.—(2).  | Professor BUTTERWORTH             |
| S6. The Principles of High School Education.—(2). | Professor BUTTERWORTH             |
| S16. Educational Finance.—(1).                    | Professor BUCKINGHAM              |
| S17. The Teacher.—(1).                            | Mr. WILLIAMS                      |
| S19. Elementary School Curriculums.—(2).          | Dean CHARTERS                     |
| S20. Supervision.—(2).                            | Professor BUTTERWORTH             |
| S21. Educational Tests and Measurements.—(2).     | Professor BUCKINGHAM              |
| S27. High School Curriculum.—(2).                 | Dean CHARTERS, Director STEVENSON |
| S28. The Project Method of Teaching.—(1).         | Director STEVENSON                |
| S43. Mental Tests.—(2).                           | Professor HILL                    |

#### Courses for Graduates

- |   |                      |
|---|----------------------|
| S118. Seminar in Educational Research.—( $1\frac{1}{2}$ unit).          | Professor BUCKINGHAM |
| S119. Curriculum Construction.—(1 unit).                                | DEAN CHARTERS        |
| S125. Seminar in Auxiliary or Special Education.—( $\frac{1}{2}$ unit). | Professor HILL       |

#### ELECTRICAL ENGINEERING

ELLERY BURTON PAINE, M.S., E.B., *Professor, Acting Head of the Department*

MORGAN BROOKS, Ph.B., M.E., *Professor*

EDWARD HARDENBERGH WALDO, A.B., M.S., M.E., *Assistant Professor, Electrical Design*



ABNER RICHARD KNIGHT, M.E., *Associate*  
 ERNEST ALEXANDER REID, M.S., *Instructor*  
 PAUL HENRY BURKHART, B.S., *Instructor*  
 WILLIAM RIGA LYON, B.S., *Graduate Assistant*

**4. Elementary Electrical Engineering.**—Electrical machinery; selection, installation, and operation; distribution of power; motor applications. *II*; (2).

Professor BROOKS

*Prerequisite:* Physics 1a-1b, 3a-3b; junior standing.

**8. Electric Currents and Apparatus.**—Direct and alternating current circuits and machines; storage batteries. (Especially for students in chemical engineering.) *I*; (3).

Professor BROOKS

*Prerequisite:* Physics 1a-1b, 3a-3b; registration or credit in Mathematics 7; registration in Electrical Engineering 68.

**11. Direct Current Apparatus.**—Generators, motors, distribution circuits; storage batteries. (For students in mechanical engineering.) *I*; (3).

Professor BROOKS

*Prerequisite:* Physics 1a-1b, 3a-3b; Mathematics 8 or 9.

**12. Alternating Current Apparatus.**—Generators and motors, transformers, distribution systems. (For students in mechanical engineering.) *II*; (3).

Professor BROOKS

*Prerequisite:* Electrical Engineering 11, 61.

**25. Direct Current Apparatus.**—Laws of electric and magnetic circuits; construction and operation of direct current generators and motors. *I*; (4).

Assistant Professor WALDO, Professor PAINE, Mr. KNIGHT

*Prerequisite:* Registration in Electrical Engineering 75 and Physics 4a; Mathematics 9.

**26. Alternating Currents.**—Mathematical and graphical treatment of periodic currents; phenomena in transmission lines and transformers. *II*; (4).

Mr. KNIGHT

*Prerequisite:* Electrical Engineering 25; Physics 4a; registration in Electrical Engineering 76.

**35. Alternating Current Apparatus.**—Transformers and generators. *I*; (4).

Professor PAINE

*Prerequisite:* Electrical Engineering 26, 76.

**36. Alternating Current Apparatus.**—Synchronous, induction, and commutator motors; rotary converters; distributed inductance and capacity; transient phenomena. *II*; (4).

Professor PAINE

*Prerequisite:* Electrical Engineering 35, 36.

**55. Electrical Design.**—Electromagnets and dynamos, direct and alternating; transformers. *I*; (2).

Assistant Professor WALDO

*Prerequisite:* Electrical Engineering 26; registration in Electrical Engineering 35.

**56. Electrical Design.**—Induction motors and converters; power plant design. *II*; (4).

Assistant Professor WALDO

*Prerequisite:* Electrical Engineering 35; Mechanical Engineering 2.

**61. Direct Current Laboratory.**—Circuits and Machines. (For students in mechanical engineering.) *I*; (1).

Mr. BURKHART

*Prerequisite:* Registration in Electrical Engineering 11.

**62. Alternating Current Laboratory.**—Alternating current circuits and machines. (For students in mechanical engineering.) *II*; (1).

Mr. BURKHART

*Prerequisite:* Registration in Electrical Engineering 12.

**64. Electrical Engineering Laboratory.**—Testing of dynamos and motors. *II*; (1)

Mr. BURKHART

*Prerequisite:* Registration in Electrical Engineering 4.

**68. Electrical Engineering Laboratory.**—Direct and alternating current circuits and machines. *I*; (1).

Mr. BURKHART

*Prerequisite:* Registration in Electrical Engineering 8.

**71-72. Electrical Engineering Laboratory.**—The construction of special apparatus or other work approved by the department. (Elective for juniors and seniors.) *I, II*; (1-3).<sup>1</sup>

*Prerequisite:* Registration in Electrical Engineering 25.

**75. Electrical Engineering Laboratory.**—Direct current laboratory accompanying Electrical Engineering 25. *I*; (2).

Mr. REID

*Prerequisite:* Registration in Electrical Engineering 25.

**76. Electrical Engineering Laboratory.**—Flux and E. M. F. waves of alternators. Alternating current circuits, instruments. *II*; (2).

Mr. REID

*Prerequisite:* Electrical Engineering 25, 75; registration in Electrical Engineering 26.

**85. Electrical Engineering Laboratory.**—Advanced alternating current testing. *I*; (2).

Mr. REID

*Prerequisite:* Electrical Engineering 76; registration in Electrical Engineering 35.

**86. Electrical Engineering Laboratory.**—Advanced alternating current testing. *II*; (2).

Mr. REID

*Prerequisite:* Electrical Engineering 85; registration in Electrical Engineering 36.

**87. Radio Communication.**—A mathematical and physical study of the principles of radio telegraphy and telephony; experimental work with radio equipment. This course is designed to prepare men for special technical service in the Signal Corps. *I*; (4).

Mr. KNIGHT

*Prerequisite:* Senior standing in Electrical Engineering.

**88. Radio Communication.**—Continuation of Electrical Engineering 87. *II*; (4).

Mr. KNIGHT

*Prerequisite:* Electrical Engineering 87.

**[90. Lighting.**—Electric lamps and other illuminants, and their effective use; interior wiring; methods of distribution. (For students in architecture.) *I* (half semester only); (1).

Professor BROOKS

*Prerequisite:* Junior standing.]

**92. Lighting and Wiring.**—(First half of semester same as E. E. 90). Distribution and fusing. Underwriters' rules; motors. (For students in architectural engineering.) *I*; (2).

Professor BROOKS

*Prerequisite:* Junior standing.

**95-96. Seminar.**—Electrical railroading; illumination; telegraphy; telephony; storage batteries; electric metallurgy. *I, II*; (1).

Professor PAINE

*Prerequisite:* Junior standing.

**98. Thesis.**—First semester: preliminary reading and investigation; second semester: completion. *I*, (no credit); *II*, (3).

**99. Inspection Trip.**—*I*, (no credit).

*Prerequisite:* Senior standing.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study list *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 2-5, but 2, or 3, or 4, or 5.

Courses for Graduates.

Entrance on graduate work in electrical engineering presupposes the full undergraduate course in that subject.

**101. Advanced Course in Alternating Currents.**—The theory of Transient Phenomena; polyphase circuits; measuring apparatus. *Twice a week; I, II; (1½ units).*

Professor PAINE

**103. Electrical Design.**—Plans for specified machine or apparatus; or for the arrangement of an electrical plant; or for the installation of such machinery or apparatus. *Twice a week; II; (1 unit).*

Assistant Professor WALDO

**105. Electrical Engineering Research.**—Investigation of electrical phenomena or tests of some electrical machine, or of a plant of such machines. *Twice a week; I, II; (1 to 3 units).*

Professor PAINE

ENGINEERING

(See ARCHITECTURE, CERAMIC ENGINEERING, CIVIL ENGINEERING, DRAWING, ELECTRICAL ENGINEERING, MECHANICAL ENGINEERING, MECHANICS, MINING ENGINEERING, MUNICIPAL AND SANITARY ENGINEERING, PHYSICS, RAILWAY CIVIL ENGINEERING, RAILWAY ELECTRICAL ENGINEERING, and RAILWAY MECHANICAL ENGINEERING.)

THE ENGLISH LANGUAGE AND LITERATURE

(Including RHETORIC, JOURNALISM, PUBLIC SPEAKING, and SCANDINAVIAN.)

STUART PRATT SHERMAN, Ph.D., *Professor, Chairman*

DANIEL KILHAM DODGE, Ph.D., *Professor*

THOMAS ARKLE CLARK, B.L., *Professor*

ERNEST BERNBAUM, Ph.D., *Professor*

GEORGE TOBIAS FLOM, Ph.D., *Professor of Scandinavian*

HARRY GILBERT PAUL, Ph.D., *Associate Professor*

EDWARD CHAUNCEY BALDWIN, Ph.D., *Assistant Professor*

FRANKLIN WILLIAM SCOTT, Ph.D., *Assistant Professor, Secretary*

HARRY STUART VEDDER JONES, Ph.D., *Assistant Professor*

JACOB ZEITLIN, Ph.D., *Assistant Professor*

HARRY FRANKLIN HARRINGTON, A.M., *Assistant Professor*

CHARLES HENRY WOOLBERT, Ph.D., *Assistant Professor of Speech*

HERBERT LESOURD CREEK, Ph.D., *Assistant Professor*

CLARENCE VALENTINE BOYER, Ph.D., *Associate*

CLARISSA RINAKER, Ph.D., *Associate*

HAROLD NEWCOMB HILLEBRAND, Ph.D., *Associate*

LEW R SARETT, A.B., LL.V., *Associate*

MARTHA JACKSON KYLE, A.M., *Instructor*

ALLENE GREGORY, Ph.D., *Instructor*

ALTA GWINN SAUNDERS, A.M., *Instructor*

JOHN JAY PARRY, Ph.D., *Instructor*

LUCY LILIAN NOTESTEIN, A.M., *Instructor*

ERNEST ERWIN LEISY, A.B., *Instructor*

MIRIAM ALICE FRANC, Ph.D., *Instructor*

EDGAR COLBY KNOWLTON, Ph.D., *Instructor*

RUTH KELSO, A.M., *Instructor*

INEZ LOUISE WIGGINS, A.M., *Instructor*

CLARA MABEL HOGUE, A.M., *Instructor*

WILLIAM BRISTOW JONES, A.M., Litt.D., *Assistant*

ELMO SCOTT WATSON, A.M., *Assistant*

LENA JOSEPHINE MYERS, A.M., *Assistant*

ELEANOR CRAIG, Ph.B., *Assistant*

HELENE LOIS HINDS, A.M., *Assistant*

RALPH COLBY, A.M., *Assistant*

LOUIS IGNATIUS BREDVOLD, A.M., *Assistant*

MURRAY WRIGHT BUNDY, A.M., *Assistant*

GEORGE KEYPORTS BRADY, A.B., *Assistant*

FRANK WARREN CLIPPINGER, A.M., *Assistant*

GORDON RANDOLPH CRECRAFT, A.B., *Assistant*

EDWARD WILLIAM DOLCH, A.M., *Assistant*

WALTER QUINCY WILGUS, B.Litt., *Assistant*

WINIFRED ALMINA PERRY, A.M., *Assistant*

LUCRETIA LOWE, A.M., *Assistant*

CONSTANCE ANNA BUSWELL, A.B., *Assistant*

MARION JEWETT AUSTIN, A.M., *Assistant*

ANNA EDITH DAY, A.M., *Assistant*

ELIZABETH BLAIR FLETCHER, A.M., *Assistant*

FLORENCE MILLER HUMPHREYS, A.M., *Assistant*

PAUL NISSLEY LANDIS, A.M., *Assistant*

ELVA KREHBIEL LEISY, A.B., *Assistant*

JAMES ORTON HUFF, A.M., *Assistant*

CARL STEPHENS, A.B., *Assistant*

JULIA MINETTA BARBER, A.M., *Assistant*

ALLEN THURMAN WRIGHT, A.B., *Graduate Assistant*

GALEN VICTOR KNIGHT, A.B., *Graduate Assistant*

BEULAH PRANTE, A.B., *Graduate Assistant*

#### *Cooperating:*

HOMER EDWARDS WOODBRIDGE, Ph.D., (*Summer Session*)

HARRISON M KARR, A.M., *President of Grand Prairie Seminary (Summer Session)*

ROBERT CALVIN WHITFORD, Ph.D., (*Summer Session*)

BEATRICE VIRGINIA COPLEY, A.M., (*Summer Session*)

**Major:** 20 hours in English excluding Rhetoric 1-2 and English 10, and including at least 10 hours in English literature, at least 3 hours in composition, and at least 1 one-year course, or its equivalent, from the advanced group of courses.

**Minor:** 20 hours in either (a) one foreign language; or (b) in any two foreign languages; or (c) in one foreign language and philosophy; or (d) in one foreign language and history.

### A. ENGLISH LITERATURE AND LANGUAGE

#### Elementary Courses.

**1-2. Survey of English Literature.**—(Credit is not given for either semester separately, nor for the course in addition to course 10-11 or course 20.) *I, II; (4).*

Professor SHERMAN, Assistant Professor BALDWIN, Assistant Professor CREEK, Dr. RINAKEK.

*Prerequisite:* One year of college work.

**10-11. Introduction to Literature.**—First semester: The Forms of Poetry. Second semester: The Forms of Prose Literature. (This course is intended only for those who expect to include a considerable amount of literature, in English or in some other language,

in their curriculum. Credit is not given for the course in addition to English 1-2 or 20 nor for the first semester separately. One semester's work is credited toward a major in English.) *I, II; (3).*

Professor DODGE, Associate Professor PAUL, Assistant Professor JONES, Assistant Professor ZEITLIN, Miss KYLE.

*Prerequisite:* The minimum entrance requirements in English.

**12-13. American Literature.**—(Credit is not given for either semester separately.) *I, II; (2).* Associate Professor PAUL

*Prerequisite:* English 1-2 or 10-11, or junior standing.

**20. Chief English Writers of the Nineteenth Century.**—The course aims to awaken an interest in literature by presenting the best thought of nineteenth century men of letters on religion, politics, economics, conduct, and social life. For those whose program admits of but one semester's work in English. Credit is not given for the course in addition to English 1 or 10. *I or II; (4).*

Professor DODGE, Dr. BOYER, Dr. GREGORY, Mr. BREDVOLD

*Prerequisite:* One year of college work.

**23. Introduction to Shakespeare.**—*I or II; (3).*

Professor SHERMAN, Dr. HILLEBRAND

*Prerequisite:* English 1-2 or 10-11, or junior standing.

**21-22. Literary Study of the Bible.**—Hebrew literature as an expression of the life of the race that produced it; the debt, both ethical and artistic, of modern life to ancient Hebrew thought. (Either semester may be taken separately.) *I, II; (3).*

Assistant Professor BALDWIN

*Prerequisite:* Six hours of English Literature.

**24. English Literature of the Victorian Period.**—*II; (3).*

Miss KYLE

*Prerequisite:* Six hours of English literature.

**29. English Literature from 1557 to 1688, Exclusive of the Drama.**—*I; (3).*

Assistant Professor BALDWIN

*Prerequisite:* Six hours of English literature.

**31. English Literature from 1688 to 1789.**—*I; (3).*

Associate Professor PAUL

*Prerequisite:* Six hours of English literature.

**33. English Literature from 1789 to 1837.** *I; (3).*

Assistant Professor ZEITLIN

*Prerequisite:* Six hours of English Literature.

**43. Browning.**—Intensive reading of the principal poems. *I; (3).*

Miss KYLE

*Prerequisite:* Six hours of English Literature or junior standing.

**44. Contemporary Poetry.**—A study of writers representing the principal movements in contemporary poetry, English and American. *II; (3).*

Dr. GREGORY

*Prerequisite:* Ten hours of English literature or junior standing.

### Courses for Advanced Undergraduates and Graduates

*Prerequisite:* Junior or senior standing and either ten hours of English literature or the consent of the instructor.

**3. The Poetry of Milton.**—Origin, forms, artistic and ethical values; Milton's place in English literary history. *II; (3).*

Assistant Professor BALDWIN

**4. English Versification.**—History and technic; reading of representative poems; verse composition conferences. *I; (2).*

Assistant Professor CREEK

5. **Shakespeare.**—Intensive study of six plays, with special emphasis on *Hamlet*. *II*; (3). Professor DODGE

25. **Chaucer.**—*I*; (3). Assistant Professor JONES

[27. **English Literary Periodicals and the Genesis of the Periodical Essay in the 17th and 18th Centuries.**—*I*; (2). Not given, 1919–20. Assistant Professor SCOTT]

[28. **The Magazine in America.**—*II*; (2). Not given, 1919–20. Assistant Professor SCOTT]

8-9. **Old English.**—(Anglo-Saxon.)—Grammar; short poems; *Beowulf*. (The first semester may be taken separately.) *I, II*; (3). Professor DODGE

17. **The English Language.**—History, characteristics, and usage of modern English. *I*; (3). Assistant Professor ZEITLIN

35-36. **The English Drama (Exclusive of Shakespeare).**—First semester: from the beginning to 1600. Second semester: from 1600 to 1700. (Either semester may be taken for separate credit.) *I, II*; (3). Professor DODGE, Dr. HILLEBRAND

39. **Introduction to the Literature of the Middle Ages.**—Classical influences. Principal types; epic, romance, legend, lay, allegory, fabliau, lyric. Important poems, both English and continental, will be read in translation. *II*; (3). Assistant Professor CREEK

41. **The Teaching of English Literature.**—*I*; (2). Associate Professor PAUL

42. **The Teaching of English Composition.**—*II*; (2). Associate Professor PAUL

45. **The Development of the Modern Drama.**—Dramatic tendencies in the nineteenth century, both in England and on the Continent; representative reading, and lectures from the standpoint of comparative literature. *I*; (3). Dr. HILLEBRAND

49. **Literary Treatment of Social and Economic Problems, 1770-1870.** *II*; (3). Dr. BOYER

52. **The Great Novelists of the Nineteenth Century.**—Scott, Jane Austen, Dickens, Thackeray, Hawthorne, George Eliot, Meredith, Hardy, Stevenson, etc. *I*; (3). Professor BERNBAUM

53. **Matthew Arnold.**—A study of his prose and poetry with special reference to the currents of nineteenth century thought. *II*; (3). Professor SHERMAN

54. **Introduction to Comparative Literature.**—Introductory and comparative survey of the greatest Greek, Latin, Italian, Spanish, French, German, and English authors. The second semester may not be taken separately. *I, II*; (3).

Professors OLDFATHER, MCKENZIE, FITZ-GERALD, LESSING, BERNBAUM, Dr. VAN HORNE.

Note.—This course is not counted toward an undergraduate major in English.

60a-60b. **Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I, II*; (1). *Time to be arranged.*

Assistant Professor ZEITLIN and others

### Courses for Graduates

101. **Research in Special Topics.**—Guidance in writing theses for advanced degrees. *I, II*; (1 or 2 units).

Professor SHERMAN, Professor DODGE, Professor BERNBAUM, Associate Professor PAUL, Assistant Professor BALDWIN, Assistant Professor SCOTT, Assistant Professor JONES, Assistant Professor ZEITLIN, Dr. RINAKER.

110. Old English (Anglo-Saxon) Poetry.—*Twice a week. I; (1 unit).*  
Professor DODGE
114. Development of the Essay.—An examination of the various types of the English essay with reference to Continental influences and classical origins. *I, II; (1 unit).*  
Assistant Professor ZEITLIN
- [120. History of Literary Criticism.—Critical standards from Aristotle to Sainte Beuve. The main types of criticism. *I, II; (1 unit).* Not given 1919–20.]
- [126. Ballads.—*Twice a week. (1 unit).* Not given, 1919–20.]
128. Spenser and the Beginnings of the English Renaissance.—The persistence of certain medieval traditions reinforced by the Revival of Classical Learning, Catholicism, and Calvinism as sources of literary inspiration. *Twice a week. I, II; (1 unit).*  
Assistant Professor JONES
- [129. English Literature from the Norman Conquest to Chaucer.—Readings in Middle English authors exclusive of Chaucer, and lectures on the literature of the period. *Twice a week. I, II; (1 unit).* Not given, 1919–20.  
Assistant Professor JONES]
- [135. Problems in American Literature.—*I, II; (1 unit).* Not given, 1919–20.  
Associate Professor PAUL]
136. The Transition from the Seventeenth to the Eighteenth Century, 1675–1725; The Rise of Classicism.—*Twice a week. I, II; (1 unit).* Associate Professor PAUL
137. Prose Writers of the Nineteenth Century.—Relation of literature to social forces; Mill, Carlyle, Newman, Ruskin, Arnold, Pater, and others. *Twice a week. I, II; (1 unit).*  
Professor SHERMAN
- [138. The Romantic Movement in England.—*I, II; (1 unit).* Not given 1919–20.  
Professor SHERMAN]
139. The Sonnet Revival in the Eighteenth Century.—Special topics for investigation and reports with emphasis on methods of research. *Twice a week. I; (1 unit).*  
Dr. RINAKER
140. Investigation in Modern English Literature.—For second and third year graduate students who are preparing theses for the doctor's degree. May be taken in successive years. *Three hours, once a week. I, II; (1 to 3 units).* Professor BERNBAUM
141. The History of Seventeenth Century English Literature to About the Year 1675, beginning with Shakespeare's Sonnets.—*I, II; (1 unit).* Professor BERNBAUM
143. The Origin of the English Novel, and its History to the End of the Eighteenth Century.—The first semester may not be taken separately. *I, II; (1 unit).*  
Professor BERNBAUM
144. Lincoln's Letters and Speeches.—Development of style, relation to period, textual study, contemporary estimates. *II; (1 unit).* Professor DODGE

### Summer Session Courses

#### Courses for Undergraduates

- S2a. Historical Survey of English Literature.—First part of the nineteenth century.  
(2). Professor DODGE  
*Prerequisite:* One year of college work or the equivalent.  
*Equivalent:* First half of English 2. (Together with S2b this course covers the work of English 2).

- S2b. Historical Survey of English Literature.**—Second Part of the Nineteenth century.  
(2). Dr. WHITFORD

*Prerequisite:* One year of college work or the equivalent.

*Equivalent:* Second half of English.

- S21. Literary Study of the Bible.**—(2).

Assistant Professor BALDWIN

*Prerequisite:* Eleven hours of English literature, or eight hours of English literature and eight hours of foreign language.

*Equivalent:* English 21 (in part).

- S23. Introduction to Shakespeare.**—(2½).

Visiting Professor WOODBRIDGE

*Prerequisite:* One year of college English or junior standing.

*Equivalent:* English 23 (in part).

### Courses for Advanced Undergraduates and Graduates

- S3. The Poetry of Milton.**—(3).

Assistant Professor BALDWIN

*Prerequisite:* Sixteen hours of English literature or two years of college work and the consent of the instructor.

*Equivalent:* English 3.

- S8. Old English. (Anglo-Saxon).**—(3).

Professor DODGE

*Prerequisite:* Sixteen hours of English literature or two years of college work.

*Equivalent:* English 8.

- S25. Chaucer.**—(3).

Assistant Professor JONES

*Prerequisite:* Two years of college work and the consent of the instructor.

*Equivalent:* English 25.

### Courses for Graduates

- S101. Research in Special Periods.**—Individual conferences arranged with graduate students engaged upon definite pieces of investigation. (1 unit).

Professor DODGE, Assistant Professor BALDWIN, Assistant Professor JONES, Visiting Professor WOODBRIDGE

- S128. Spenser and the Beginnings of the English Renaissance.**—(1 unit).

Assistant Professor JONES

## B. RHETORIC

### Courses for Undergraduates Only

- 1-2. Rhetoric and Themes.**—Required for students in the Colleges of Liberal Arts and Sciences, Commerce, Engineering, and Agriculture. The course is not counted toward a major in English. I, II; (3).

Assistant Professor SCOTT in charge, Assistant Professor CREEK, Dr. BOYER, Dr. HILLEBRAND, Dr. RINAKER, Dr. GREGORY, Dr. FRANC, Dr. PARRY, Miss NOTESTEIN, Mr. LEISY, Dr. KNOWLTON, Miss KELSO, Miss WIGGINS, Miss HOGUE, Mr. W. B. JONES, Miss MYERS, Miss CRAIG, Miss HINDS, Mr. COLBY, Mr. BREDVOLD, Mr. BUNDY, Mr. BRADY, Mr. CLIPPINGER, Mr. CRECRAFT, Mr. DOLCH, Mr. WILGUS, Miss PERRY, Miss LOWE, Miss BUSWELL, Miss AUSTIN, Miss DAY, Miss FLETCHER, Miss HUMPHREYS, Mr. LANDIS, Mrs. LEISY, Mr. WRIGHT, Miss PRANTE, Mr. STEPHENS.

*Prerequisite:* The minimum entrance requirements in English.

Admission to the course is tentative, pending the successful completion of a preliminary test covering the first two weeks of the course.



**0.—Preparatory Composition.**—A preparatory course for students who do not pass the preliminary test in Rhetoric 1. Spelling, grammar punctuation, sentence structure. *I* or *II*; (*no credit*).

Professor SCOTT, Dr. KNOWLTON, Mr. JONES, Mr. BREDVOLD, Mr. CLIPPINGER, Miss AUSTIN, Miss HUMPHREYS.

**3a.<sup>1</sup> Exposition.**—Themes or topics of general interest; analysis of facts and ideas, literary reviews, and criticisms; informal essays. *I* or *II*; (3).

Assistant Professor JONES, Miss KYLE

*Prerequisite:* Rhetoric 1-2.

**3b.<sup>1</sup> Exposition.**—This section is designed to meet the needs of students who desire instruction and criticism in the preparation of professional and scientific papers. *I*; (3).

Mr. BUNDY

*Prerequisite:* A grade of C in Rhetoric 1-2.

**3d.<sup>1</sup> Description and Simple Narrative.**—*II*; (3).

Miss KYLE

**6-7. Narrative Composition.**—Practise in short story writing. (Intended for those who have some aptitude for literary work.) *I, II*; (3).

Miss NOTESTEIN

*Prerequisite:* Two years of college work and the consent of the instructor.

**10. Business Writing.**—Correspondence; sales letters; practise in writing business reports and summaries. Lectures and discussions. (Not counted toward a major in English.) *I* or *II*; (2).

Assistant Professor CREEK, Mrs. SAUNDERS, Mr. DOLCH

*Prerequisite:* Rhetoric 1-2.

**22. Summarizing and Briefing.**—Summarizing, briefing, and making reports; abstracts of correspondence on file; summarizing of commercial and economic data for the solution of business problems. (For students in the College of Commerce and Business Administration). *II*; (2).

Mrs. SAUNDERS

**46. Dramatic Composition.**—Theory and practise. *II*; (3).

Dr. HILLEBRAND

*Prerequisite:* Junior standing and the consent of the instructor.

### Courses for Advanced Undergraduates and Graduates.

**17. Advanced Composition.**—The study of structure; criticism of current periodical literature; development of material for reports and magazine articles. *I*; (3). Dr. BOYER

*Prerequisite:* Two years of college work and the consent of the instructor.

### Summer Session Courses

#### Courses for Undergraduates

**S1. Rhetoric and Themes.**—Principles of structure; grammar; punctuation; the sentence; reasoning processes. Four short themes a week and an occasional long theme. Oral and written exercises.

Dr. WHITFORD, Miss COPLEY

*Prerequisite:* Entrance credit in English.

*Equivalent:* Rhetoric 1.

**S2. Rhetoric and Themes.**—Principles of argumentation, narration, and description. (3).

Miss COPLEY

*Prerequisite:* Rhetoric 1.

*Equivalent:* Rhetoric 2.

<sup>1</sup>No more than 6 hours' credit may be earned in Rhetoric 3; to obtain 6 hours, *two different* types of composition must be elected.

## Courses for Advanced Undergraduates and Graduates

**S17. Advanced Composition.**—Structure; criticism of current periodical literature; development of material for magazines. (3). Visiting Professor WOODBRIDGE

*Prerequisite:* Two years of college work and the consent of the instructor.

*Equivalent:* Rhetoric 17.

## C. JOURNALISM

**1. The Collecting and Writing of News.**—Methods of popular approach; structure and style; drill in gathering news; exercises and assignments in writing the news-story; the various types of newspaper narratives; news values considered with the aid of representative newspapers on file in the laboratory. Five laboratory periods and three lectures a week. I; (3). Assistant Professor HARRINGTON, Mr. WATSON, Mr. WILGUS

*Prerequisite:* Rhetoric 1-2.

**2. The Newspaper.**—(A continuation of Journalism 1.) Interviewing and newspaper correspondence; the organization and mechanical details of the newspaper; the work of the press associations; a brief historical survey of the American newspaper. Practise in writing for newspapers. Five laboratory periods and three lectures a week. II; (3).

Assistant Professor HARRINGTON, Mr. WATSON, Mr. WILGUS

**3. Copy-reading and Head-writing.**—Practical training in the reading of copy, re-writing, and building of headlines. Four hours' work on the desk and one lecture a week. I; (2). Mr. WATSON

*Prerequisite:* Journalism 1 and 2, or consent of the instructor.

**4. Make-up and Editorial Practise.**—Training in proof reading, handling correspondence, lay-outs, and art work, type selection, making-up, and editorial supervision. Four hours' work on the desk and one lecture a week. II; (2). Mr. WATSON

*Prerequisite:* Journalism 1, 2, and 3, or consent of the instructor.

**5. Problems of Reporting.**—An analysis of changing news values; discussions on accuracy and fair play; the technic of news gathering; constructive handling of institutional, political, and criminal news; the education and training of the reporter. I; (2).

Assistant Professor HARRINGTON

*Prerequisite:* One course in journalism.

**6. Newspaper Policies.**—Personal forces in American journalism; the relation of the newspaper to the public; making the newspaper more dynamic; syndicates, headlines, first-page displays; newspaper campaigns; ethical aspects in the treatment of news, editorials, and advertising. II; (2).

Assistant Professor HARRINGTON

*Prerequisite:* Junior standing.

**[7. Making a Country Newspaper.**—Discussions intended primarily for juniors and seniors interested in the publication of country weeklies and small city dailies. A study of small town conditions; problems affecting rural news-gathering; country correspondence; circulation; advertising; business efficiency; print-shop equipment. Special investigations by members of the class. I; (2). Not given in 1919-20.

Assistant Professor HARRINGTON

*Prerequisite:* Junior standing.]

**8. Agricultural News Writing.**—Class exercises; analysis of representative farm journals; lectures; assignments in gathering and preparing material for agricultural and country papers. II; (3). Mr. BREDVOLD

*Prerequisite:* Junior standing.

**9-10. Editorials and Special Articles.**—Sources and treatment of materials for editorials and articles; the interpretation of news; journalistic backgrounds; the relation of current events to the social sciences. Assigned readings; preparation of editorials, feature articles, and reviews. *I, II; (3).*

Assistant Professor HARRINGTON

*Prerequisite:* Junior standing.

**32. Law of the Press.**—Organization of the courts and their jurisdiction; elementary legal procedure; law of libel; fair comment on books, plays, and public men; reports of public official proceedings, such as court and legislative proceedings; constitutional guarantees of the liberty of the press; statutory restrictions of the press; copyright. The instruction includes an examination and criticism of current newspaper articles. *II; (2).*

Professor HALE

*Prerequisite:* Junior standing.

#### D. PUBLIC SPEAKING

**1. Oral Expression.**—Theory and practise of oral expression for public and private address; elimination of mannerisms; cultivation of vocal purity and power; development of self-confidence and poise. *I; (2).*

Assistant Professor WOOLBERT, Mr. SARETT, Miss HICKOK

Credit is not given for this course unless it is followed by Public Speaking 2 or 10.

*Prerequisite:* Rhetoric 1-2.

**2. Extemporaneous Speaking.**—Theory and practise in coherent and effective organization of original materials, and in composition for practical public speaking; adaptation of speaking manner to subject matter; discussion of topics of current interest. *II; (2).*

Assistant Professor WOOLBERT, Mr. SARETT, Miss HICKOK

*Prerequisite:* Public Speaking 1.

**10. Interpretation and Dramatization of Literature.**—Oral interpretation of standard literature; interpretation and staging of plays. *II; (2).*

Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1.

**3. Argumentation.**—Theory of argumentative discourse, for the cultivation of ability in meeting the contentions of an opponent, in analytical and instructive thinking; briefing, speech-writing, training in detection of fallacies in popular argument, criticism of the literature of debate; text and exercises. *I; (3).*

Mr. SARETT

*Prerequisite:* Public Speaking 1 and 2.

**4. Debate.**—Application of the principles of argumentation to spoken debate, particularly political and intercollegiate discussions; team competition, adaptation of argument to various types of audience; popular debate opportunities for practise debates before real audiences. *II; (3).*

Mr. SARETT, Mr. KNIGHT

*Prerequisite:* Public Speaking 3.

**5. Persuasion.**—The winning of individuals and audiences by means of the written and spoken appeal; a study of the psychological sources of human action; primarily a study in matter, with secondary attention to appropriate platform manner and methods. *I; (2).*

Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1 and 2.

**6. Forms of Public Address.**—Application of the principle of persuasion to particular types of address; practise in the composition and delivery of legislative, political, commemorative, dedicatory, inaugural, and academic addresses; the sales talk, plea for a client, the college oration, commencement address; lyceum lecture, and after-dinner talk. *II; (2).*

Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1 and 2. Public Speaking 5 is recommended.

**7. A Study of Orators and Oratory.**—The lives, times, and works of distinguished speakers; required readings and reports, chiefly oral in the form of speeches; discussions, topical speeches, and declamations. *II*; (2). Assistant Professor WOOLBERT

*Prerequisite:* Public Speaking 1 and 2 or 1 and 10.

**12. The Teaching of Public Speaking.**—Theories of speech-training; organization of courses; methods of teaching; coaching debate, oratory, theatricals; oral English; standards of criticism. *II*; (2). Mr. SARETT

#### Summer Session Courses

**S1. Oral Expression.**—Vocal Methods, relation of the voice to the interpretation of thought. (2). Mr. KARR

*Prerequisite:* Rhetoric 1 and 2 or equivalent.

*Equivalent:* Public Speaking 1.

(Credit is not given for this course unless it is followed by Public Speaking 2 or 10, or an equivalent).

**S10. Interpretation and Dramatization.**—Oral reading of types of literature; principles of stage action; staging and acting of several one-act plays. (Attention of those who register in this course is called to English S23). (2). Mr. KARR

*Prerequisite:* Public Speaking 1 or equivalent.

*Equivalent:* Public Speaking 10.

**S11. Problems in the Teaching of Oral English.**—Primarily for high school teachers. (1). Mr. KARR

*Prerequisite:* The consent of the instructor.

#### E. SCANDINAVIAN LANGUAGES

##### Undergraduate Courses Not Open to Freshmen

**11. Elementary Norwegian.**—Grammar; pronunciation; reading; conversation. *I, II*; (3). Professor FLOM

[3a-3b. **Intermediate Norwegian.**—First semester; Ibsen's *Brand* and *Et Dukkehjem*. Second Semester: Bjornson's *En Fallit* and selections from recent writers. *I, II*; (2). Not given 1919-20. Professor FLOM

*Prerequisite:* Scandinavian 1 or the equivalent.]

**4. Intermediate Swedish.**—Reading of selections from present-day Swedish writers; grammar review. *I*; (2). Professor FLOM

*Prerequisite:* Scandinavian 2 or the equivalent.]

**6. Ibsen.**—Lectures; Interpretation of three of the social dramas. Archer's translation is used. *II*; (2). Professor FLOM

**12. Norse Mythology.**—Primitive religion; the religious beliefs of the Norsemen in pre-Christian times; interpretation of the principal myths; the beginnings of literature. *I*; (2).

**1. History of Swedish Literature.**—Lectures and assigned reading. *I*; (2).

*Prerequisite:* Junior standing.

##### Course for Graduates and Advanced Undergraduates

**16. Lectures on Scandinavian Culture from the Stone Age to 1000 A. D.**—Special emphasis upon relation to the early civilization of the present Holland, Belgium, France, and the British Isles. *II*; (2).

*Prerequisite:* Junior standing.

## Course for Graduates

Preparation for graduate work in the Scandinavian languages or literature must include a reading knowledge of one of the Scandinavian languages and systematic work in the undergraduate courses in Scandinavian or their equivalent. Any graduate student in language may, however, be admitted to the purely philological courses.

**101. Old Norse.**—Introduction to the language as a member of the Germanic group. Reading of the Prose Edda. (1 unit). Professor FLOM

## ENTOMOLOGY

STEPHEN ALFRED FORBES, Ph.D., LL.D., *Professor*

ALEXANDER DYER MACGILLIVRAY, Ph.D., *Professor*

JUSTUS WATSON FOLSOM, D.Sc., *Assistant Professor*

ROBERT DOUGLASS GLASGOW, Ph.D., *Instructor*

CHARLES PAUL ALEXANDER, Ph. D., *Entomologist, Natural History Survey*

LEWIS BRADFORD RIPLEY, M.S., *Graduate Assistant*

**Major:** 20 hours from courses offered in the department, except Entomology 1a-1b, 3, 4, 16, and 19.

**Minor:** 20 hours in botany, physiology, zoology, horticulture, and agronomy (see page 117).

Beginning courses open to freshmen and without prerequisites are 1a, 1b, 3, and 4. Course 1a may best be followed by 2 or 4, course 1b by 2 or 7, and course 15 by 7 for juniors and 18 for seniors. Students preparing for service as economic entomologists should take as many of the courses offered as possible, including especially 1a, 2, 4, 7, and 8.

**1a. Elementary Entomology.**—The structure, function, inter-relations, origin, and development of insects, and the simpler generalizations of biological theory illustrated with insect material. Field observations; methods of collecting, mounting, and preparing insect materials for study, and the preparation of a reference collection of the commoner species and their work with special reference to injurious forms. Especially recommended as preliminary to Entomology 4, and for prospective teachers of zoology. Lectures, field, laboratory, and quiz work. (Students may not receive credit for both 1a and 1b). *I*; (3).

Dr. GLASGOW

**1b. Elementary Entomology.**—The life, development, anatomy, and classification of insects, together with the identification of some common species. Designed for those who wish to acquaint themselves with the most interesting phases of insect life, especially as a preparation for teaching. (Students may not receive credit for both 1a and 1b). *I* or *II*; (3).

Professor MACGILLIVRAY

**3. Insects of the Vicinity.**—Students will make collections of the insects of the neighborhood, under the guidance of an instructor, and will learn to prepare, classify, label, and arrange their collections, with the aid of keys and manuals of the different orders. Lectures, as needed, on the structure of insects and on the general principles and features of insect classification; and studies on the habits, habitats, and transformations of the species collected. *I, II*; (2).

Dr. ALEXANDER

**2. General Entomology.**—Morphological, physiological, and systematic entomology; the collection and preservation of specimens; field observations; studies of adaptive structures; classification and determination of insects; studies of life histories. *I, II*; (3).

Assistant Professor FOLSOM, Dr. GLASGOW

*Prerequisite:* Entomology 1a, 1b, or 3.

**7a-7b. Systematic Entomology.**—The external anatomy of insects; terminology of the parts; identification of specimens. *I, II; (5).* Professor MACGILLIVRAY

*Prerequisite:* Entomology 1a, 1b, or 3.

**4. Introduction to Economic Entomology.**—Lectures, field work; laboratory. Primarily for students in the College of Agriculture; it may not be counted for satisfaction of group requirements in the College of Liberal Arts and Sciences. *I or II; (3).*

Assistant Professor FOLSOM, Dr. GLASGOW

**19. Garden and Household Insects.**—Identification, life history, and methods of control, of the common insect pests of garden and ornamental plants, and of insects which may affect food, clothing, and health. Primarily for students in landscape gardening and in home economics. *II; (3).*

Assistant Professor FOLSOM

*Prerequisite:* One year of university work.

**8a-8b. Advanced Economic Entomology.**—Field, laboratory, insectary, library, and manuscript work on insects affecting live stock, cereal crops, fruit and garden crops, forest and shade trees and greenhouse or other ornamental plants. Especially intended to give the student of agriculture or horticulture ample preparation in the entomology of any one or more of these groups. Recommended also to prospective county advisers and to those preparing for service as professional entomologists. *I, II; (3).*

Assistant Professor FOLSOM

*Prerequisite:* Entomology 4.

**16. Apiculture.**—The essentials of bee-keeping. Practical operations; laboratory observations; collateral reading. *II; (2).*

Assistant Professor FOLSOM

**13. Insects and Disease.**—Insects and their allies which cause or transmit disease. Relation to public health. Recognition and control. (For pre-medical students, and for those interested in problems of state, municipal, and home sanitation). Lectures; assigned reading; practical demonstrations. *I; (2).*

Dr. GLASGOW

*Prerequisite:* Sophomore standing.

**14. Medical Entomology.**—Practical technic, methods employed in the study of arthropods which cause or transmit disease, and of disease-producing organisms disseminated by arthropods. (For pre-medical students and those taking entomology as a major; registration limited to ten students.) Laboratory; assigned reading; demonstrations. *I; (2).*

Dr. GLASGOW

*Prerequisite:* Entomology 13, or registration in 13.

**5. Introduction to Research.**—Library, language, manuscript, and advanced laboratory work on assigned topics. Intended as a preparation for entomological thesis work. *I or II; (3).*

Professor MACGILLIVRAY, Assistant Professor FOLSOM

*Prerequisite:* Entomology 1a, 2, or 4, 8 or 1b, 7.

**6a-6b. Thesis Investigation.**—Subject selected during the junior year. Three hours a day given to investigation, under the supervision of an instructor during the senior year. *I, II; (5).*

Professor MACGILLIVRAY, Assistant Professor FOLSOM

*Prerequisite:* Entomology 5.

### Courses for Advanced Undergraduates and Graduates

**15. Introductory Course.**—Lectures on the metamorphosis and development of insects, characteristics of the orders, suborders, and more important families; the habits of representative species; the anatomy of immature and adult insects; and the classification of insects. (Not open to students who have had courses 1 and 2. Those who have had only one of the above courses, may take this course for a half credit only.) *I; (3).*

Professor MACGILLIVRAY

*Prerequisite:* Two years of university work.

- 10a-10b. Taxonomy of Immature Insects.**—Their anatomy and classification. *I, II;* (3). Professor MACGILLIVRAY

*Prerequisite:* Entomology 7 or 18a; senior standing.

- 11a-11b. Classification of the Coccidae.**—The preparation, morphology, and identification of scale insects. *I, II;* (3). Professor MACGILLIVRAY

*Prerequisite:* Entomology 7 or 18a; senior standing.

- 17a-17b. Insect Organogemy.**—The more important systems of organs of adult and immature insects. A laboratory course. *I, II;* (3). Professor MACGILLIVRAY

*Prerequisite:* Entomology 7 or 18a; senior standing.

- 18a-18b. Insect Taxonomy.**—Structures used in the classification of insects and the identification of a representative collection of insects. Laboratory. *I, II;* (5).

Professor MACGILLIVRAY

*Prerequisite:* Three years of university work.

### Courses for Graduates

- 102. Research in the Morphology and Embryology of Insects.**—*Twice a week. I, II;* (1 or 2 units). Assistant Professor FOLSOM

- 108. Research in Economic Entomology.**—*Twice a week. I, II;* (1 or 2 units).

Assistant Professor FOLSOM

- 109. Research in Systematic Entomology.**—*Twice a week. I, II;* (1 or 2 units).

Professor MACGILLIVRAY

### Summer Session Courses

#### Courses for Undergraduates

- S1. General Entomology.**—Introduction to the study of insects in field and laboratory. Collection methods and methods for the preservation and preparation of insects for study. The structure, interrelations, origin, development, and classification of insects. Recognition of the commoner species and their work, including forms injurious to field and garden crops and to the health of man and animals. Species of economic importance will be used for illustrative material wherever pertinent. Lectures; demonstrations; laboratory; field trips; assigned reading. (2).

Dr. GLASGOW

- S3. Economic Entomology.**—Life history and habits of the commoner injurious insects. Methods of control. Lectures; demonstrations; assigned reading.

Dr. GLASGOW

*Prerequisite:* May be taken only by students registered at the same time in course S1.

*Equivalent:* (Together with S1) Entomology 4.

- S5. Insects of the Vegetable Garden.**—Practical studies of habits, development, and control of insects affecting vegetables. (2).

Assistant Professor FOLSOM

- S9. Insect Materials for Teachers of Biology.**—Educational value of the experimental method in the teaching of biology. More frequent and more extended use of the experimental method made possible by the employment of insect materials. Types of classroom exercises. Sources of materials. Preparation of special collections, materials, demonstrations, and experiments for illustrating the simpler generalizations of biological theory. Lectures; laboratory; field excursions; assigned reading.

Dr. GLASGOW

*Prerequisite:* One year's experience in teaching biology, or junior standing in the University. May be taken only by students registered at the same time in course S1.

## Course for Advanced Undergraduates and Graduates

**S2. Advanced Course.**—Instruction to meet the purposes of the individual student.  
*Arrange.* Assistant Professor FOLSOM

## Course for Graduates

**S108. Research in Economic Entomology.**—*Twice a week; arrange.* (1 or 2).  
 Assistant Professor FOLSOM

## FARM ORGANIZATION AND MANAGEMENT

WALTER FREDERICK HANDSCHIN, B.S., *Professor*

JAMES BURTON ANDREWS, B.S., *Associate*

EMIL RAUCHENSTEIN, B.S., *Associate*

ELINOR TRAXLER, B.S., *Assistant*

**1. Elementary Farm Management.**—The factors of production in the farm business; types of farming, their distribution and adaptation; farm organization, the distribution of capital invested, planning of the farm; farm administration or operation, planning of work, handling of labor, development of management efficiency. Lectures; quiz. The trip required in this course is the same as in Animal Husbandry 29. *II*; (3).

Professor HANDSCHIN, Mr. RAUCHENSTEIN

*Prerequisites:* Three semesters of required work; Economics 1 or 2 and Accountancy 1 or

11. It is also very important that the student have credit or be registered in Agronomy 12, and have at least six hours credit in Animal Husbandry 1b, 2b, 4b, and 11b.

**5. Farm Organization.**—The economic organization of different types of farming, with special reference to their financial, physical, and productive organization. *II*; (3).

Professor HANDSCHIN

*Prerequisites:* Farm Management 1.

## FINE ARTS

(See ART AND DESIGN and MUSIC. Attention is called also to courses in ESTHETICS offered by the departments of PHILOSOPHY, EDUCATION, ARCHITECTURE, and HOME ECONOMICS.)

## FLORICULTURE

(See HORTICULTURE.)

## FRENCH

(See ROMANCE LANGUAGES AND LITERATURE.)

## GEOLOGY

CHARLES WESLEY ROLFE, M.S., *Professor, Emeritus*

WILLIAM SHIRLEY BAYLEY, Ph.D., *Professor*

THOMAS EDMUND SAVAGE, Ph.D., *Professor*

TERENCE THOMAS QUIRKE, E.M., Ph.D., *Associate Professor, Chairman*

MORRIS MORGAN LEIGHTON, Ph.D., *Assistant Professor*

HAROLD EUGENE CULVER, Ph.B., Ph.M., *Lecturer*

ALYDA CAREN HANSON, B.S., *Assistant*



**Major:** One of the elementary courses (1, 43, 20, 47, or 37), followed by 20 hours in courses that have prerequisites in the department, except that courses 47 and 14 may be included by students who take course 1 or 37.

**Minors:** 20 hours selected from any one or two of the following departments: astronomy, botany, chemistry, entomology, physics, and zoology. Students specializing in geography add to this list sociology, economics, or history.

### Courses for Undergraduates

**1. General Geology.**—Physiography.—The surface features of the earth with emphasis on their origin and significance; the agencies and processes of geologic change; the effects of composition, hardness and structure of rocks on the evolution of topographic forms; and the elements of Meteorology and Oceanography; the common rocks and minerals. Four recitations; laboratory work and quiz; two field trips. *I* or *II*; (5).

Professor SAVAGE, Associate Professor QUIRKE, Assistant Professor LEIGHTON, Mr. CULVER, Miss HANSON.

**1a. Historical Geology.**—The evolution of the earth and its life. Lectures; laboratory (Continuing course 1). *II*; (5).

Associate Professor QUIRKE

*Prerequisite:* Geology 1.

**37. Human Geography.**—The influence of geography, topography, climate, and natural resources on human life and history. Discussions; laboratory. *I* or *II*; (5).

Miss HANSON

**14. Weather and Climate.**—The atmosphere and its processes; weather and forecasting; causes and distribution of climates; *I*; (3).

Miss HANSON

**11. Geography of North America.**—Influences of geographic factors on the countries of North America. Lectures; reading and map study. *II*; (3).

Miss HANSON

*Prerequisite:* Geology 37.

**22. History of Organic Evolution.**—The evolution of plants and animals, as indicated by the fossil-record. *I*; (3).

Professor SAVAGE

*Prerequisite:* Geology 1, or Zoology 1, or Botany 1.

**39. Geology of Illinois.**—The stratigraphy, structure, geologic history, and resources of the state. *II*; (3).

Professor SAVAGE

*Prerequisite:* Geology 1 or 43.

**9. Invertebrate Paleontology.**—The more important fossil groups in biological sequence. Lectures; laboratory. *I*; (5).

Professor SAVAGE

*Prerequisite:* Geology 1.

**16. Stratigraphy.**—The study of fossil faunas, with special reference to Paleozoic invertebrates; principles of correlation and stratigraphy. *II*; (5).

Professor SAVAGE

*Prerequisite:* Geology 9.

**42. Stratigraphic Paleontology.**—The invertebrate index fossils of the successive geologic formations, from the Cambrian to the Tertiary. Field trip of 1–2 weeks required in the second semester. *I, II*; (5).

Professor SAVAGE

*Prerequisite:* Geology 16 and senior standing.

**20. General Mineralogy.**—Study of the most common minerals of economic and scientific importance; blow-pipe analysis. (Primarily for engineers and chemists.) Quiz; laboratory. *I*; (3).

Professor BAYLEY

*Prerequisite:* Chemistry 1 and 2, or equivalent.

**43. Engineering Geology.**—The general principles and broader facts of geology from the engineering viewpoint. Discussions; laboratory *I* or *II*; (3).

Associate Professor QUIRKE and Mr. CULVER

*Prerequisite:* Freshmen work in the College of Engineering.

**2. Economic Geology.**—The origin and distribution of the more important mineral deposits of North America. Lectures; recitations. *II*; (3). Professor BAYLEY

*Prerequisite:* Geology 20 or 47, and 1 or 43.

**47. Systematic Mineralogy.**—Identification of common minerals (mainly non-silicates) by physical tests and crystal form. Crystallography, principles of classification. Lectures; laboratory. *II*; (3). Professor BAYLEY

*Prerequisite:* Chemistry 1 and 2, or equivalent.

**48. Silicate Minerals.**—(A continuation of Geology 47.) The silicate minerals. Quiz; laboratory. *I*; (3). Professor BAYLEY

*Prerequisite:* Geology 47.

**6. Optical Mineralogy.**—Introduction to the microscopic study of minerals, by means of their behavior in polarized light. Two lectures; four hours laboratory. *I*; (3). Professor BAYLEY

*Prerequisite:* Geology 47.

**7. Petrography.**—The principles learned in Geology 6 applied to the study of rocks. The different types of rocks; their origin and classification. Study of representative suite of specimens in the hand specimen and thin section. *II*; (3). Professor BAYLEY

*Prerequisite:* Geology 6.

**10. South America.**—The world relations of South America; the influence of climate; drainage, topography; size, shape, and the natural resources of South America on the settlement and economic development of South American countries. South American countries as markets for foreign trade. *I*; (3). Not given in 1919–20.

*Prerequisite:* Geology 37, 63, 11.]

**15. Structural and Metamorphic Geology.**—Rock deformation and its results. Lecture and Laboratory. *I*; (3). Not given in 1919–20. Associate Professor QUIRKE

*Prerequisite:* Geology 1, 47, 48, 6, 7. Chemistry 1 and 2; Physics 1 and 2.]

**18. Field Geography.**—Local geography as based upon field work; the influences of topography drainage, regional location, and natural resources upon the economic development of the areas investigated. *II*; (5). Miss HANSON

*Prerequisite:* Geology 1 or 37.

**19. Field Geology.**—Excursion to some important district within 300 miles of Urbana, during the Easter recess. The cost of the trip will be about \$30.00. Credit on the basis of written report. *II*. Members of the department

*Prerequisite:* Geology 1 or 43.

**19a. Field Geology.**—Students who have had Geology 19 and wish to visit another locality the following year should register for 19a. The conditions are the same as for 19. *II*; (1). Members of the department

**23. Physiography of the United States.**—An interpretative study of the physiographic development of the United States by provinces, followed by general correlative studies and a consideration of the problems awaiting research. Lectures, discussions, reference reading, and map work. *II*; (3). Assistant Professor LEIGHTON

*Prerequisites:* Physiography and Elementary Historical Geology. Advanced Dynamic Geology and Advanced Historical Geology recommended.)

60. **Thesis.**—Investigation of a problem in the field or laboratory under the immediate guidance of a member of the staff. *I, II; (2); or II; (4).*

*Prerequisite:* Senior standing and 12 hours of geology.

**Geological Club.**—All members and advanced students of the department participate in this for the purpose of considering the results of investigations, reviews of important publications, and special lectures. Advanced students will normally be assigned two papers each semester.

### Courses for Graduates

For graduate work in geology the student must have a thoro training in the principles of the science, except in unusual cases, which will be decided on their merits, at least 20 hours of geology and two or more weeks of field experience will be required. Graduate students with adequate technical preparation in other sciences may be admitted to graduate courses in certain subjects, such as crystallography. Courses 48, 6, 7, 15, 15a, 16, 42, 60, 56, 51, 52, 23, 10, 68, 69 may be offered as graduate work by students who have other credits for at least 20 hours of geology.

101. **Advanced Crystallography.**—Methods used in measuring, projecting, and calculating crystal forms, and determining the physical properties of crystallized bodies. *Twice a week; I, II; (1 unit).* Time to be arranged. Professor BAYLEY

102. **Igneous Petrography.**—The igneous rocks, identification of types, classification, and relationships. Lectures; laboratory. *Twice a week; I; (1 unit).*

Professor BAYLEY

103. **Metamorphic Petrography.**—Microscopy of the metamorphic rocks; interpretation of their origin. *Twice a week; II; (1 unit).* Professor BAYLEY

105. **Paleontologic and Stratigraphic Problems.**—The study of fossil invertebrates, by either zoölogical or faunal groups. *One to three times a week; I, II; (1 unit).*

Professor SAVAGE

130. **Field Research.**—Investigation of the geology and geography of an approved district, under general supervision of a member of the department faculty. Weekly reports. *(½ to 3 units).* Members of the department

135. **Research.**—Individual work under the supervision of members of the staff in their respective fields. *Once a week; I, II; (½ to 4 units).*

Members of the department

136. **Seminar in Geology.**—Special problems and topics in the various phases of geology. *Once a week, I, II; (1 unit).* Time to be arranged.

Members of the department

### GERMANIC LANGUAGES AND LITERATURE

JULIUS GOEBEL, Ph.D., *Professor*

OTTO EDUARD LESSING, Ph.D., *Professor*

NEIL CONWELL BROOKS, Ph.D., *Assistant Professor*

LEONARD BLOOMFIELD, Ph.D., *Assistant Professor, Comparative Philology and German*

CHARLES ALLYN WILLIAMS, Ph.D., *Associate*

ARMIN HAJMAN KOLLER, Ph.D., *Associate*

**Major:** 20 hours in German, excluding German 1, 2, and 3, and including at least 6 hours of primarily fourth-year courses.

**Minors:** 20 hours in not more than two subjects chosen from the following list: languages, education, history, philosophy, and psychology, provided that 8 hours must be selected from a language other than German.

## First-Year Courses

1. **Elementary Course.**—Grammar and easy reading for beginners. *I*; (4).

Professor LESSING, Assistant Professor BROOKS, Assistant Professor BLOOMFIELD.

*Prerequisite:* Not open to students who have had high-school work in this language.

2. **Narrative Prose.**—Grammar and reading. *I*; (4).

Assistant Professor BLOOMFIELD

*Prerequisite:* One year of high-school German or German S1, or German 1.

NOTE.—Students who have had no German for one year or more will be required to take a written test before entering German 2. This will be regarded as a *test of present ability in German* and not as an examination on any particular course previously taken in this subject.

3. **Narrative Prose.**—(Continuation of German 1.) Reading and grammar. *II*; (4).

Professor LESSING, Assistant Professor BROOKS, Assistant Professor BLOOMFIELD

*Prerequisite:* German 1 or equivalent demonstrated by examination.

## Second-Year Courses

4. **Prose Reading.**—Selections from standard prose writers; sight reading; composition. *I* or *II*; (4).

Assistant Professor BROOKS, Assistant Professor BLOOMFIELD, Dr. WILLIAMS, Dr. KOLLER.

*Prerequisite:* German 2 or 3, or two years of high-school German, or equivalent demonstrated by examination.

5. **Narrative and Historical Prose.**—At the option of the instructor one classic in verse may also be read. Composition. *I* or *II*; (4).

Assistant Professor BROOKS, Dr. WILLIAMS

*Prerequisite:* German 4, or three years of high-school German, or equivalent demonstrated by examination.

6. **Scientific German.**—The rapid reading of works of a general scientific character. Section A is primarily for students in the curriculums in Chemistry and Chemical Engineering. (Parallel with 5. Students may not take both 5 and 6 for more than a total of four hours' credit without special permission of department.) *I* or *II*; (4).

Dr. WILLIAMS, Dr. KOLLER

*Prerequisite:* German 4, or three years of high-school German, or equivalent demonstrated by examination.

## Third-Year Courses

7. **Modern Fiction.**—(Intended primarily for students who take 5 in the first semester. Not open to those who have had any course more advanced than 5.) *II*; (3).

Assistant Professor BROOKS

*Prerequisite:* German 5 or equivalent.

10. **Introductory Goethe Course.**—Reading of works illustrating different periods in Goethe's development; *Goetz von Berlichingen*; *Egmont*; *Iphigenie auf Tauris*; selections from *Dichtung und Wahrheit*. *II*; (3).

Assistant Professor BROOKS

16. **Elementary Composition and Conversation.**—*I*; (2).

Dr. KOLLER

*Prerequisite:* German 5 or equivalent.

17. **Intermediate Composition and Conversation.**—*II*; (3).

Dr. KOLLER

*Prerequisite:* German 16.

24. **Modern German Drama.**—Rapid reading of dramas by Grillparzer, Hebbel, Hauptmann, and others. *I*; (3).

Professor LESSING

**28a-28b. German Lyrics and Ballads.**—Their form, development, and various types: the *Volkslied* of the eighteenth and nineteenth centuries and its influence. First semester: the early eighteenth century and the classical period. Second semester: the nineteenth century. (The first semester may be taken separately, but not the second without the first.) *I, II; (2).*

Dr. WILLIAMS

*Prerequisite:* German 5, or equivalent, and sophomore standing.

### Primarily Fourth-Year Courses

NOTE.—For a major in German students are required to take at least six hours of these primarily fourth-year courses; seniors who are preparing to teach German should take German 29.

**19a-19b. Goethe's Faust.**—The Faustlegend and early Faust books and plays; the genesis of Goethe's *Faust*; reading of both parts. *I, II; (3).* Professor GOEBEL

**[26a. German Literature to the End of the Reformation.**—Lectures; recitations; reports on assigned reading. *I; (3).* Not given 1919-20. Professor LESSING]

**26b. German Literature Since the Reformation.**—Lectures; recitations; reports on assigned collateral reading. *II; (3).* Professor LESSING

*Prerequisite:* German 26a.

**30a-30b. Thesis Course.**—(Intended primarily for candidates for honors in German, but open to other seniors.) *I, II; (1 or 2).<sup>1</sup>* Professor GOEBEL, et al.

*Prerequisite:* Senior standing and three years of college German or equivalent.

**31. Middle High German.**—*I; (3).*

Professor GOEBEL

*Prerequisite:* Senior or graduate standing; three years of college German.

**[32. History of German Civilization.**—Readings; lectures; discussions. *I; (3).* Not given, 1919-20. Assistant Professor BROOKS]

**[39a-39b. Goethe and Schiller.**—Interpretation of Goethe's poems. Goethe's *Tasso*; Schiller's *Über naive und sentimentalische Dichtung*. *I, II; (2).* Not given, 1919-20.

Professor GOEBEL]

### Courses for Graduates

Students desiring to take German as a major should have completed a four years' course of undergraduate study in German, corresponding to the four years' course at this University, and should be familiar with the principal works of the writers of the classical and modern periods of German literature, show a general knowledge of the history of German literature, and be able to follow lectures in the German language.

A reading knowledge of Latin and French is required. It is desirable that candidates for the degree of Ph.D. have some knowledge of Greek. All students are expected to have had a course in German history.

**101. Seminar in Germanic Philology.**—Training in original research; results of special value may be published in the *Journal of English and Germanic Philology*. *Once a week; I, II; (1 unit).*

Professor GOEBEL

**103. Introduction to the Historical Study of the Germanic Languages.**—History of German philology; comparative grammar of the Old Germanic dialects. Lectures; discussions of special topics. *Twice a week; II; (1 unit).*

Professor GOEBEL

**[104. Gothic—Grammar and Literature.** *Twice a week; I; (1 unit).* Not given, 1919-20.

Professor GOEBEL]

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 2-5 but 2 or 3, or 4, or 5.

105. Old High German.—Grammar and interpretation of the oldest literary documents. *Three times a week; II; (1 unit).* Dr. WILLIAMS
- [109. Goethe's and Schiller's Philosophy.—*Twice a week; I, II; (1 unit).* Not given, 1919–20. Professor GOEBEL]
- [110. Early German Drama.—*Twice a week; I; (1 unit).* Not given, 1919–20. Assistant Professor BROOKS]
- [113. German Literature of the Fifteenth and Sixteenth Centuries.—*Twice a week; II; (1 unit).* Not given, 1919–20. Assistant Professor BROOKS]
- [115. History of German Literature of the Nineteenth Century.—*Twice a week; I, II; (1 unit).* Not given, 1919–20. Professor LESSING]
- [116. Medieval German Literature with Reference to Political, Religious, and Social History.—Research. *Twice a week; I; (1 unit).* Not given, 1919–20. Professor LESSING]
- [117. History of German Literature During the Eighteenth Century.—*Twice a week; I, II; (1 unit).* Not given, 1919–20. Professor GOEBEL]
- [118. The German Drama Since Schiller.—*Twice a week; I, II; (1 unit).* Not given, 1919–20. Professor LESSING]
119. The German Novel.—Research. *Twice a week; I, II; (1 unit).* Professor LESSING
121. Walter von der Vogelweide.—*Twice a week; II; (1 unit).* Professor GOEBEL
- [121a. The Nibelunglied.—Lectures and interpretations. *Twice a week; II; (1 unit).* Not given, 1919–20. Professor GOEBEL]
- [121b. Gudrun.—Lectures and interpretations. *Twice a week; II; (1 unit).* Not given, 1919–20. Professor GOEBEL]

#### Summer Session Courses

##### Courses for Undergraduates

- S4. Prose Reading.—Narrative prose, sight reading; composition. (3). Dr. KOLLER  
*Prerequisite:* German 3.  
*Equivalent:* German 4 (in part)
- S5. Scientific Prose.—The rapid reading of works of a general scientific character. (2). Professor LESSING  
*Prerequisite:* German 4 or three years of high-school German.  
*Equivalent:* German 6 (in part).
- S16. Composition and Conversation. (2). Dr. KOLLER  
*Prerequisite:* Two years of university German or an equivalent.  
*Equivalent:* German 16.
- S24. Modern Drama.—Reading and discussion of dramas by Hauptmann and others. (2). Professor LESSING  
*Prerequisite:* Two years of university German or an equivalent.  
*Equivalent:* German 24 (in part).

#### GREEK

(See CLASSICS.)

#### HEBREW

(See ORIENTAL LANGUAGES AND LITERATURE.)

## HISTOLOGY

(See PHYSIOLOGY.)

### HISTORY.

EVARTS BOUTELL GREENE, Ph.D., *Professor*  
 CLARENCE WALWORTH ALVORD, Ph.D., *Professor*  
 LAURENCE MARCELLUS LARSON, Ph.D., *Professor*  
 ALBERT HOWE LYBYER, Ph.D., *Professor*  
 ALBERT TEN EYCK OLMSTEAD, Ph.D., *Professor*  
 WILLIAM SPENCE ROBERTSON, Ph.D., *Associate Professor*  
 ARTHUR CHARLES COLE, Ph.D., *Assistant Professor*  
 PAUL VAN BRUNT JONES, Ph.D., *Associate*  
 THEODORE CALVIN PEASE, Ph.D., *Associate*  
 JOSEPH WARD SWAIN, Ph.D., *Instructor*  
 JAMES EDWARD GILLESPIE, A.M., *Instructor*

#### *Cooperating:*

WILLIAM ABBOTT OLDFATHER, Ph.D., *Professor of the Classics*

**Major:** 20 hours, excluding History 1a and 2a, and including (a) either History 1b or 2b; (b) six hours selected from courses for advanced undergraduates and graduates; and (c) any other courses offered in the department.

**Minors:** 20 hours, selected from two of the following subjects: economics, political science, law, sociology, the history of any literature, history of education, philosophy, and physiography. Courses in any foreign language may be accepted in satisfaction of this requirement, if the student can show his ability to read ordinary historical prose in that language. In every case the minor courses must include either Economics 1 or Political Science 1 and 3.

### Courses for Undergraduates

**1a-1b. Continental European History.**—Europe from the fifteenth century to the present time. (Either semester may be taken separately.) *I, II*; (4 or 3).<sup>1</sup>

Professor LYBYER, Professor OLMSTEAD, Dr. JONES, Dr. SWAIN, Mr. GILLESPIE

**2a-2b. English History.**—First semester: political history of England to 1660; the larger social, economic, and religious movements. Second semester: the modern history of England to the outbreak of the Great War; colonial and imperial development. *I, II*; (3 or 2).<sup>2</sup>

Professor LARSON, Dr. PEASE, Dr. SWAIN, Mr. GILLESPIE

**3a-3b. History of the United States.**—First semester: the colonies in 1750; the French War and the Revolution; the genesis of the Federal Constitution; development under the Constitution to 1815. Second semester: a century of national development, 1815-1919. (Either semester may be taken separately.) *I, II*; (3).

Professor GREENE, Associate Professor ROBERTSON, Assistant Professor COLE

*Prerequisite:* One year of college work.

**5. History of Greece.**—*I*; (3). (See Greek 20.)

Professor OLDFATHER

*Prerequisite:* One college course in history or the classics; sophomore standing.

**6. History of Rome.**—*II*; (3). (See Latin 19.)

Professor OLDFATHER

**8a-8b. History of the Middle Ages.**—*I, II*; (3).

Dr. JONES

*Prerequisite:* Sophomore standing.

<sup>1</sup>Three credits for seniors; four credits for students other than seniors.

<sup>2</sup>Two credits for seniors; three credits for students other than seniors.

**18. The Teaching of History.**—Preparation of students for the teaching of history in secondary schools. *II*; (2). Assistant Professor COLE

*Prerequisite:* History 1a-1b, 3a-3b, or their equivalent; senior standing.

**28a-28b. Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I, II*; (2). Associate Professor ROBERTSON

**33. Pro-Seminar in American History.** An introduction to the theory and practise of historical criticism. For seniors. (Topics for 1919-20 taken from the field of American history, 1845-1865.) *I, II*; (2). Assistant Professor COLE

*Prerequisite:* One year of college history and senior standing.

**50a-50b. The Ancient World.**—First semester: the prehistoric age and the ancient empires. Second semester: Greece and Rome. *I, II*; (3).

Professor OLMSTEAD, Associate Professor ROBERTSON, Assistant Professor COLE

*Prerequisite:* Sophomore standing.

**51. Hebrew History.**—A general history of the Hebrew people to the revolt under Hadrian; source problems, as they relate to Biblical criticism. An attempt will be made to correlate the Biblical history with the general history of the times. *I*; (3).

Professor OLMSTEAD

*Prerequisite:* Junior standing.

#### Courses for Advanced Undergraduates and Graduates

(Open to seniors and to juniors of high standing. The ability to use modern languages is desirable.)

**4a-4b. The Constitutional History of England.**—First semester: institutional origins. Second semester: modern constitutional practise. (Important for students specializing in history, political science, or law.) *I, II*; (3). Professor LARSON

*Prerequisite:* One year of college history.

**12. Medieval Civilization.**—The religious, economic, and intellectual development of medieval society. *II*; (3). Professor LARSON

*Prerequisite:* One year of college history (English or general European).

**14a-14b. The History of American Political Ideals.**—*I, II*; (3).

Professor GREENE

*Prerequisite:* History 3.

**15. The Civil War and the Reconstruction.**—The ante-bellum South and its destruction, 1844-70. The Civil War in the light of the forces which tended to hasten or obstruct the clash of arms. *II*; (3). Assistant Professor COLE

*Prerequisite:* History 3a-3b.

**16a-16b. The History of the Exploration and Colonization of the West.**—First semester: the Mississippi Valley from the earliest European explorations to the close of the war of 1812. Second semester: the Mississippi Valley since 1815, and the progress of western expansion to the Pacific. (Either semester may be taken separately.) *I, II*; (2).

Professor ALVORD

*Prerequisite:* History 3a-3b.

**19. French Civilization from the Age of Louis XI to the Present.**—*II*; (3).

Dr. JONES

**20a. Europe Before the Great War.**—National reorganization, material progress, and world-wide expansion, 1848 to 1891. *I*; (3). Professor LYBYER

*Prerequisite:* One year of college history, economics, or political science.



**20b. The Great War.**—The history of Europe, 1891 to 1914, with special reference to the formation of alliances and the development of causes of conflict; the history of the war itself. *II*; (3).  
Professor LYBYER

**21. The Recent History of the United States.**—Historical introduction to contemporary American politics, with considerable attention to international relations. *I*; (3).  
Associate Professor ROBERTSON

*Prerequisite:* History 3b.

**23a-23b. England in the Seventeenth and Eighteenth Centuries.**—First semester: the influence of Puritanism on the institutions of modern England and America. Second semester: Whigs and Tories, 1672-1783. English politics and political thought considered as a background to political theory in the American Revolution. *I, II*; (2). Dr. PEASE

**26. History of the Latin-American Colonies.**—The political, economic, social, and intellectual life of Spain during the period of discovery. The exploration, settlement, and civilization of Spanish America and the Philippines. *I*; (3).  
Associate Professor ROBERTSON

*Prerequisite:* One year of college history.

**27. History of Latin-America from the War of Independence to the Present Time.**—The national history of the leading Latin-American states with special attention to political parties, existing governments, present conditions, and relations with the United States; the old regime in our Southwest. *II*; (3).  
Associate Professor ROBERTSON

*Prerequisite:* One year of college history.

**29. The Far East.**—The contact of Western nations with the Far East, from the sixteenth century to the present time. *II*; (3).  
Professor GREENE

*Prerequisite:* One year of college history and senior standing.

**30a-30b. The Ottoman Empire and the Question of the Near East.**—The rise and greatness and the beginning of the decline of the Turkish power, 1300 to 1792. Turkey since 1792, with special attention to internal conditions, international relations, and the antecedents of the Great War. *I, II*; (2).  
Professor LYBYER

**40. The History of the British Commonwealth.**—The expansion of England; imperial organization; the development of the colonial nations. *I*; (2).  
Professor LARSON

**53. Assyrian History.**—The Assyrian Empire; sources; political thought; government of dependencies; parallels to more modern imperial states; economic life. *II*; (3).  
Professor OLMSTEAD

*Prerequisite:* Senior standing and the consent of the instructor.

### Courses for Graduates

Graduate work in history presupposes two years of college work in this subject, or sixteen semester hours, which should include courses in European and American history corresponding roughly to History 1a-1b and 3a-3b in this University. Linguistic preparation, especially in French and German, is important. For medieval history some knowledge of Latin is essential, and Spanish is useful for certain fields of American history.

Advanced courses in history at the University of Illinois are of three kinds:

(1) For information and guidance in general reading. (2) Instruction in methodology, historiography, and bibliography. A part of this work (in course 103) is required of all graduate students in history during their first year. (3) Seminar courses for the study of special fields with a view to training in the methods of historical criticism and research.

**Illinois Historical Survey.**—Students have an opportunity to pursue research in western history in connection with the Illinois Historical Survey, an organization for the purpose of carrying on systematic studies in the history of Illinois.

Attention is also called to the fact that the University of Illinois has for some time cooperated with the Trustees of the State Historical Library, in the gathering and editing of archive material. As a result instructors and graduate students in the department have contributed from time to time to the publications of the Library, and have been given useful training in the study of manuscript as well as printed material.

**101. Seminar in American History.**—Bibliography; solution of typical problems; *I, II; (1 to 2 units).*

In connection with this course, direction in research is offered as follows:

- |   |                               |
|---|-------------------------------|
| A. American history before 1815                         | Professor GREENE              |
| B. American history since 1815                          |                               |
| Associate Professor ROBERTSON, Assistant Professor COLE |                               |
| C. The history of the West                              | Professor ALVORD              |
| D. American church history.                             | Professor GREENE              |
| E. Latin-American history                               | Associate Professor ROBERTSON |

**102. Studies in English History.**—Selected problems from the history of England in the later middle ages or the early modern period. *I, II; (1 unit).* Professor LARSON

**103. Historiography and Historical Method.**—The technic of historical investigation. Required of all candidates for an advanced degree in history who do not present evidence of similar training elsewhere. *Twice a week; I; (½ unit).* Professor COLE

**104. Seminar in English and Continental European History.**—Studies in the expansion of Europe; bibliography, historiography, and selected problems; reports on researches. *I, II; (1 to 2 units).*

In connection with this course, direction in research is offered as follows:

- |   |                                    |
|---|------------------------------------|
| A. Medieval history                     | Professor LARSON                   |
| B. Modern History of Continental Europe | Professor LYBYER                   |
| C. English history                      | Professor LARSON                   |
| D. Renaissance and Reformation          | Dr. JONES                          |
| E. Asiatic Relations                    | Professor GREENE, Professor LYBYER |

**105. Studies in the History of the West.**—Subject 1919-20: The French Colonization of the Mississippi Valley. *Once a week; I, II; (1 unit).* Professor ALVORD

**111. Spanish-American Relations.**—The relations of the Latin-American States with the United States. An intensive study of such topics as the Monroe Doctrine, the development of international trade, etc. *Once a week; I, II. (1 unit).* Professor ROBERTSON

**112. Studies in American Religious History.**—Questions of Church and State. *Twice a week; II; (1 unit).* Professor GREENE

**150. Research in Ancient Oriental History.**—*I, II; (1 unit).* Professor OLMSTEAD

#### Summer Session Courses

**S1c. European History, 1815-1919.**—Special attention will be given to the historical background of the Great War. (3). Dr. JONES

*Equivalent:* Final one-third History 1a-1b.

**S3c. American History 1860-1919.**—The recent history of the United States with special attention to the Civil War and reconstruction and to international relations since 1898. Professor GREENE, Assistant Professor COLE

*Prerequisite:* One year of college work or its equivalent.

*Equivalent:* Final one-third of History 3a-3b.

**S18. The Teaching of History.**—Conferences on problems of content and method. (1). (For students who prepare a satisfactory paper upon an assigned problem 2 credit hours).

Professor GREENE, Professor ALVORD, Assistant Professor COLE, Dr. JONES

*Prerequisite:* At least junior standing, including introductory courses in European and American history.

#### Courses for Advanced Undergraduates and Graduates

**S9. The Italian Renaissance.**—A study of the political, economic, and social changes developing in Italy between the eleventh and sixteenth centuries, which made for Italian leadership in European civilization. (2). Dr. JONES

*Prerequisite:* One college course in European history or its equivalent.

**S41. Biographical Studies in American History.**—First four weeks: Typical personalities of the American Revolutionary era (Pitt, Franklin, Washington, Jefferson, with special attention to their part in western expansion); Second four weeks: Types of American nationality and American democracy in the 19th century (Clay, Jackson, Webster, Lincoln). (2).

Professor ALVORD (first four weeks), Professor GREENE (second four weeks)

*Prerequisite:* One college course in American history or its equivalent.

**S42. Studies in Middle Western History, 1843-1870.** Assistant Professor COLE

*Prerequisite:* One college course in American history or its equivalent.

#### Courses for Graduates

**S101. Seminar in American History.**—Topics in Western History (Professor ALVORD); Topics in Recent International Relations (Professor GREENE). ( $\frac{1}{2}$  unit).

Professor GREENE, Professor ALVORD

**S103. Historiography and Historical Method.**—The technic of historical investigation. ( $\frac{1}{2}$  unit). Assistant Professor COLE

**S104. Research in European History.**—Personal conferences with graduate students who desire guidance in research. ( $\frac{1}{2}$  unit). Dr. JONES

#### HOME ECONOMICS

ISABEL BEVIER, Ph.M., *Professor and Director*

JEAN GILBERT MACKINNON, A.M., *Assistant Professor*

FLORENCE HARRISON, A.M., *Associate (Summer Session)*

MAMIE BUNCH, A.B., *in charge of Extension Work*

LOUISE STANLEY, Ph.D., *Regional Director of Home Economics, Federal Board for Vocational Education (Summer Session)*

ANNA E RICHARDSON, A.M., *Regional Director of Home Economics, Federal Board for Vocational Education (Summer Session)*

GEORGIA ELIZABETH FLEMING, B.S., *Associate*

LEONA HOPE, *Associate (Summer Session)*

NAOMI OLIVE NEWBURN, A.B., *Associate (Summer Session)*

FLORENCE HELEN CHURTON, B.S., *Associate*

SARAH AUGUSTA SUTHERLAND, B.S., *Associate*

JULIET LITA BANE, M.S., *Associate (Summer Session)*  
 ALICE LEORA EDWARDS, A.M., *Associate*  
 EMMA LOUISE WARDELL, M.S., *Associate*  
 RUTH GUENTHER, A.M., *Associate*  
 ADA ELEANOR HUNT, A.B., *Associate*  
 LYDA BOND, B.S., *Instructor*  
 EDA A JACOBSEN, A.M., *Instructor*  
 HELEN MCCULLOUGH, A.B., *Instructor (Summer Session)*  
 MARGARET HATFIELD, A.B., *Assistant*  
 MIRIAM NULL, A.B., *Assistant (Summer Session)*  
 ALICIA WILHELMINA GATES, *Assistant*  
 PEARL CRAVEN KENNEY (Mrs.), *Assistant*  
 FANNIE LEE, A.B., *Assistant, Lunch Room*

**Major:** 20 hours from any courses offered by the department, excluding Home Economics 2 and 7, and including Home Economics 3, 5, 6, 10, and 12. To satisfy the requirement for the Major, students transferring from other institutions must take at least one of the following: Home Economics 4, 5, 11, 17, 18, or 28.

**Minors:** 20 hours from either (a) chemistry, bacteriology, and physiology; or (b) economics (a minimum of eight hours), with one or two of the following subjects: art and design, education, history, psychology, and sociology.

**1. Selection and Preparation of Food.**—The nature and uses of foods, their chemical composition, and the changes effected by heat, cold, or fermentation; principles of selection; processes of manufacture; combinations of different kinds. *II; (3).*

Miss GUENTHER, Miss HUNT, Miss HATFIELD

*Prerequisite:* Entrance credit in physics; Chemistry 1.

**2. Home Architecture.**—Situation, surroundings, and construction of the house; heating, lighting, ventilation, water supply, and drainage; making skeleton plans. *I; (3).*

Professor BEVIER, Associate Professor CURTIS, Assistant Professor NEWCOMB, Mr. JONES, Miss GATES.

*Prerequisite:* Sophomore standing in the College of Agriculture; junior standing in the College of Liberal Arts and Sciences and the College of Education.

**3. Elementary Home Decoration.**—Theory of color and its application in home decoration; furnishings from a sanitary and artistic standpoint. *II; (3).* Miss GATES

*Prerequisite:* Art and Design 12; Home Economics 2.

**4. Food and Nutrition.**—Physiological, chemical, and bacteriological problems of food and nutrition. Individual investigation. *I; (5).* Miss WARDELL

*Prerequisite:* Bacteriology 5; Chemistry 13a, 9, 9c; Home Economics 5.

**5. Dietetics.**—Diet; the relation of food to health; influence of age, sex, and occupation on diet; the construction of dietaries; dietetic treatment of certain diseases. Laboratory. *I or II; (3).* Miss EDWARDS

*Prerequisite:* Home Economics 1, 6; Physiology 4.

**6. Economic Uses of Food.**—(Continuation of Home Economics 1.) The economics of the food question; uses and applications of preservatives; marketing; meals. *I; (4).*

Miss GUENTHER, Miss HUNT, Miss HATFIELD

*Prerequisite:* Home Economics 1; credit or concurrent registration in Chemistry 2a.

**6a. Economic Uses of Food.**—(Continuation of Home Economics 1 for those who have had two years of laboratory work in foods in secondary schools.) *I*; (2).

*Prerequisite:* Home Economics 1; two years of laboratory work in foods in secondary schools; credit or concurrent registration in Chemistry 2a.  
Miss GUENTHER

**7. Textiles.**—Development of the textile industry from primitive times to the present; the important fibers and materials made from them; movements for bettering textile conditions. *I* or *II*; (2).  
Miss SUTHERLAND

**8. Art and Sanitation in Daily Life.**—The application of the principles of art and sanitation in daily life. Required of freshmen; not open to others. *I*; (2).

Professor BEVIER, Miss FLEMING, Miss GUENTHER, Miss HUNT, Miss GATES

**9. Problems in Extension.**—Activities and organizations of women with special emphasis upon extension work. *II*; (3).  
Professor BEVIER, Miss BUNCH

*Prerequisite:* Senior standing.

**10. Organization and Management of the Household.**—Housekeeping as a business; organization and management; the income and its apportionment through budgeting; equipment; service. *I* or *II*; (3).  
Assistant Professor MACKINNON

*Prerequisite:* Home Economics 2, 6, 7; Economics 1 or 2.

**11. Teachers' Course.**—Methods of presenting the work, and its correlation with other subjects. Practise in planning courses and presenting lessons. Two inspection trips are made to other schools, one in April and one in May. The total cost does not exceed \$5.00. Required of all seniors who wish to be recommended to teach home economics. *II*; (3).  
Professor BEVIER, Miss CHURTON, Miss SUTHERLAND, Miss BEYER

*Prerequisite:* For non-Smith-Hughes students: Home Economics 5, 12, 13, 24. For Smith-Hughes students: Home Economics 5, 13, 31.

**12. Clothing.**—Demonstrations and laboratory work in methods of drafting, cutting, fitting, and making of garments from individual designs. *II*; (3).  
Miss FLEMING

*Prerequisite:* Home Economics 19. Proof by examination of ability to do plain sewing.

**13. Teachers' Course.**—The development of home economics as one of the factors in the education of women; the work in different types of institutions; the planning of courses for these types. Required of all seniors who wish to be recommended to teach home economics. *I*; (3).  
Professor BEVIER, Miss CHURTON

*Prerequisite:* Senior standing.

**14. Practise House.**—Planning, preparation, and serving of meals; care of the house, including laundry, with emphasis on cost and organization of work. Conferences and laboratory work in practise apartment and laundry, occupying nine weeks either half of semester. For Smith-Hughes students, this course should alternate with Education 50; for non-Smith-Hughes students, it should alternate with Home Economics 35. *I*, *II*; (3).  
Mrs. KENNEY

*Prerequisite:* Home Economics 5, 6, 10; consent of the instructor.

**17. Problems in the Study of Textiles.**—Microscopic and chemical analysis of fabrics; dyeing; special problems. *II*; (3).  
Miss SUTHERLAND

*Prerequisite:* Home Economics 7, 12, or 31; Chemistry 9, 9c.

**18. Lunch Room Management.**—Organization and equipment of lunch rooms. Brief review of the factors in marketing. Study of foods from the standpoint of quality, grades, seasons, costs, and methods of buying for private families and lunch rooms. Laboratory

practise. The class takes a trip to Chicago to inspect various types of lunch rooms. The cost of the trip is about \$15.00. *I* or *II*; (5). Miss BOND

*Prerequisite:* Home Economics 5; Economics 1 or 2; senior standing.

**19. Dress Design.**—Study of dress from artistic, historic, economic, and hygienic standpoints. Application of principles of design to silhouette, proportion, line, and color. *I* or *II*; (3). Miss JACOBSEN, Miss GATES

*Prerequisite:* Art and Design 1, 12; Home Economics 7.

**20. Infant Nutrition.**—Lectures; readings; discussions. *II*; (2). Miss WARDELL

*Prerequisite:* Home Economics 5; senior standing.

**21. Weaving.**—Application of the principles of design to weaving. Lectures; laboratory. *I* or *II*; (1). Miss SUTHERLAND

*Prerequisite:* Home Economics 7; Art and Design 12.

**28. Organization and Management of the Household.**—(Continuation of Home Economics 10.) The relation of the home to public activities; retail market organization, cooperative buying and housekeeping; community kitchens; laundries. *II*; (2). Assistant Professor MACKINNON

*Prerequisite:* Home Economics 3, 10.

**29. Garment Making.**—(Open only to those taking the Smith-Hughes course.) Use of the sewing machine and its attachments; application of line and form through drafting; hygienic aspects of clothing; making of simple cotton garments. *I*; (3). Miss JACOBSEN

*Prerequisite:* Home Economics 7; Art and Design 12.

**30. Designing and Making of Typical Garments.**—(Open only to those taking the Smith-Hughes course.) Adaptation of commercial patterns; demonstrations and laboratory work in the construction of typical garments from individual designs. *I*; (3). Miss JACOBSEN

*Prerequisite:* Home Economics 29.

**31. Clothing.**—(Open only to those taking the Smith-Hughes course.) Study of the economic aspects of clothing; clothing budget; comparative values; use of unusual fabrics; problems of remodeling and renovation. *II*; (2). Miss JACOBSEN

*Prerequisite:* Home Economics 30.

**32. Dress Designs.**—(Open only to those taking the Smith-Hughes course.) Application of unity, proportion, line, and color to dress design. Consideration of appropriateness and harmony of costume with type and occupation. Development of modern costume from historic sources. *II*; (1). Miss GATES

*Prerequisite:* Home Economics 30.

**33. Diet in Disease.**—Application of dietetic principles to the problems of diet in disease. *II*; (3). Miss EDWARDS

*Prerequisite:* Home Economics 5.

**34. Teachers' Course in Sewing.**—(Open only to non-Smith-Hughes seniors who wish to be recommended to teach.) Prerequisite to Home Economics 11. *I*; (2). Miss FLEMING

**35. Experimental Cookery.**—(Not open to Smith-Hughes students.) Relation of recipes; effect of ingredients, of manipulation, of temperature. Conferences and laboratory work occupying nine weeks either half of semester. Should alternate with Home Economics 14. *I* or *II*; (3). Assistant Professor MACKINNON

*Prerequisite:* Home Economics 5, 6.

**36. Millinery.**—Twelve lessons in millinery, beginning with the opening of the second semester. For home economics seniors only. *II; (no credit).*

**37. Lunch Room Practise.**—(Continuation of Home Economics 18). Practise in managing lunch room; work in residence hall. Marketing; accounting. *II; (2).*

Miss BOND

*Prerequisite:* Home Economics 18.

**Military 30. Food Administration Course.**—For non-Home Economics students who desire some knowledge of the selection of food in reference to energy value and cost, as well as the basis for planning of meals. *I or II; (2).*

Miss HUNT

### Courses for Graduates

This department offers graduate work along two lines, one dealing with the applications of the biological and physical sciences to the problems of food and nutrition; the other with the economic problems of the household. In either case the student must offer a minimum of ten hours' work with food, eight with textiles and clothing, five with the house, eight of chemistry, eight of biological science, and three in the principles of economics. In addition each student must offer five additional hours in economics or a second year of chemistry, including quantitative and organic chemistry, according to the line of specialization.

**101. Home Economics.**—Origin and development of home economics; its industrial, educational, and sociological aspects. *Twice a week, I; (1 unit). Time to be arranged.*

Professor BEVIER

**102. Special Investigation.**—Problems in the application of the principle of bacteriology, chemistry, and physiology to the ordinary processes used in the preparation of food; problems in nutrition. *Twice a week; I, II; ( $\frac{1}{2}$  unit). Time to be arranged.*

Professor BEVIER, Miss WARDELL

**103. Seminar.**—Recent advances in nutrition. *Once a week; II; ( $\frac{1}{2}$  unit). Time to be arranged.*

Miss WARDELL

### Summer Session

**S1. Foods.**—Selection and preparation of food, its combinations in a meal; food values and the lessons taught by the war. *(2).*

Miss GUENTHER

**S9. Advanced Dietetics.**—(Adapted to students who expect to teach in Smith-Hughes schools.) Methods of presentation as modified by local conditions. Laboratory. *(2).*

Miss GUENTHER

*Prerequisite:* A course in elementary dietetics; a year of general chemistry; a course in general physiology.

**S4. Clothing.**—Textiles used in clothing; cost and care of clothing; use of patterns; remodeling; the making of clothing. *(2).*

Miss McCULLOUGH

*Equivalent:* Two-thirds of Home Economics 12.

**S5. Millinery.**—Design and construction of wire, buckram, and cape net frames; covering with velvet and straw. Demonstrations and laboratory. *(1 $\frac{1}{2}$ ).*

Miss McCULLOUGH

**S6a. Costume Design.**—The use and misuse of fashion and possible remedies for its evils. Value of budgeting. Essentials of suitable dress. Structural design in dress—proportion, silhouette, line, workmanship, and materials. The purpose of decorative design. The fundamental principles which govern both structural and decorative design.

Problems in planning the wardrobe including remodeled and double-purpose dresses. Theory of color and systems of color organizations. Selection of colors suited to peculiar types. (1½). Miss HOPE

*Equivalent:* One-half of Home Economics 19.

**S6b. House Furnishing.**—Constructive and decorative design in furniture and furnishings; rhythm, harmony, and balance as the basis for unity in house furnishing. Comparison of floor and wall coverings for durability, cost, and artistic merit. The selection and framing of pictures. The choice and arrangement of lighting fixtures. A survey of English and French furniture and the three great art epochs which shaped it. Problems in floor plans and elevations involving design and color. Estimations of comparative cost of various types of furnishing. Assigned reading. (1½). Miss HOPE

**S10. Extension Course.**—Psychology, sociology, and pedagogy in their relation to the problems of rural life and extension work; the demonstration-lecture and home demonstrations; the home bureau as a unifying factor in correlating the efforts of all organizations for home betterment; the relation of the county adviser to the home bureau, to the university, and to the federal department. Lectures and discussions. (*No credit*). (Six weeks beginning June 24).

Professor BEVIER, Professor HANDSCHIN, Miss BUNCH, Miss BANE, Miss NEWBURN, and two representatives from the States Relation Service of the United States Department of Agriculture.

*Prerequisite:* Graduation from a four years' college course in Home Economics.

**S11. Methods of Teaching Home Economics in Secondary Schools.**—Smith-Hughes course for state supervisors and instructors of teacher training classes. (2). (Six weeks beginning June 30.) Miss HARRISON, Miss NULL

*Equivalent:* Home Economics 11, in part.

**Education S46a. State Supervision.**—Smith-Hughes course for state supervisors and instructors of teacher training classes. (2). (Six weeks beginning June 30.)

Professor BEVIER, Dr. STANLEY, Miss RICHARDSON, Miss HARRISON

*Equivalent:* Education S46a and S46b equivalent to Education 46.

**Education S46b. Teacher Training.**—Smith-Hughes course for state supervisors and instructors of teacher training classes. (2). (Six weeks beginning June 30.)

Professor BEVIER, Dr. STANLEY, Miss RICHARDSON, Miss HARRISON

*Equivalent:* Education S46a and S46b equivalent to Education 46.

## HORTICULTURE

JOSEPH CULLEN BLAIR, M.S., D.Sc., *Professor, Horticulture*

JOHN WILLIAM LLOYD, Ph.D., *Professor, Olericulture*

CHARLES SPENCER CRANDALL, M.S., *Professor, Pomology*

BETHEL STEWART PICKETT, M.S., *Professor, Pomology*

HERMAN BERNARD DORNER, M.S., *Professor, Floriculture*

ERNEST WINFIELD BAILEY,<sup>1</sup> M.S., *Assistant Professor, Pomology*

FREDERICK NOBLE EVANS, M.L.A., *Assistant Professor, Landscape Gardening*

HARRY WARREN ANDERSON, Ph.D., *Assistant Professor, Pomology*

PHILIP AUGUSTUS LEHENBAUER, Ph.D., *Assistant Professor, Plant Physiology*

WARREN ALBERT RUTH, Ph.D., *Assistant Professor, Pomology*

WILLIAM SANFORD BROCK, A.B., B.S., *Associate, Pomology*

ARTHUR SAMUEL COLBY, Ph.D., *Associate, Pomology*

<sup>1</sup> On leave of absence.



CHAUNCEY STEVENS HILL, B.S., *Associate, Landscape Gardening*  
 MAY ELIZABETH MCADAMS, B.S., *Associate, Landscape Gardening*  
 JAMES HUTCHINSON, *Associate, Floriculture*  
 EMIL CONRAD VOLZ, M.S.A., *Associate, Olericulture*  
 \_\_\_\_\_, *Associate, Vegetable Extension*  
 HARRY WARREN DAY, B.S., *Instructor, Olericulture*  
 STANLEY WILLIAM HALL, B.S., *Instructor, Floriculture*  
 ZENAS HARRY MOHLMAN, B.S., *Assistant, Floriculture*  
 EMIL FREDERICK GUBA, B.S., *Assistant, Pomology*

**1a. Elements of Horticulture.**—Fruit growing, vegetable gardening, and ornamental planting, with special reference to the farm home. Required of all freshmen in the General Curriculum in Agriculture. Recitations; practical exercises. *I*; (2).

Professor PICKETT, Assistant Professor RUTH, Assistant Professor ANDERSON, Dr. COLBY  
 Mr. BROCK

**1b. Elements of Horticulture.**—(A continuation of Horticulture 1a.) Required of all freshmen in the General Curriculum in Agriculture. *II*; (2).

Professor LLOYD, Mr. VOLZ, Mr. DAY, and assistants

**2. Small Fruits and Grapes.**—The grape, strawberry, raspberry, blackberry, dewberry, currant, gooseberry. History; extent of cultivation; soil; location; fertilizers; propagation; planting; tillage; pruning; insect enemies; diseases; varieties; harvesting; marketing. Lectures; reference readings; laboratory. *II*; (3). Dr. COLBY,

*Prerequisite:* Horticulture 1a.

**3. Commercial Vegetable Gardening.**—The production and marketing of vegetables on a commercial scale. Lectures; reference readings; practical experience in the department greenhouses and gardens. *II*; (5). Professor LLOYD, Mr. VOLZ

*Prerequisite:* Horticulture 1a and 1b or junior standing.

**4. Plant Houses.**—Construction, cost and maintenance, heating; ventilating. *II*; (4). Professor DORNER

**5. Plant Propagation.**—Grafts; buds; layers; cuttings; seeds. Lectures; laboratory; quizzes. *I*; (5). Professor DORNER

**[6. Nursery Methods.**—Some details of the nursery business; propagation, management, etc., and their relation to horticulture in general. Lectures; reference readings. Trips will be taken to nurseries, the cost not to exceed \$10.00. *II*; (2). (Not given 1919–20).

*Prerequisite:* Horticulture 5.]

**7. Spraying.**—Materials, appliances, and methods employed in combating insects and fungous diseases. Lectures; reference readings; laboratory; field work. *II*; (3).

Assistant Professor RUTH, Mr. BROCK

*Prerequisite:* Horticulture 1a and 1b or their equivalents; Chemistry 1; Entomology 4.

**[9. Forestry.**—Forest trees, uses; distribution; artificial production; relations of forest and climate; forestry legislation and economy. *II*; (2). (Not given, 1919–20).

*Prerequisite:* Botany 1, or its equivalent.]

**10a. Rural Improvement.**—Landscape gardening in the open country and its relation to rural conditions, with special reference to the farm group. Lectures; reference readings; reports. *I*; (2). Miss MCADAMS

**10b. Town Improvement.**—The development of the town as an organism and the improvement of small communities, with special reference to the home grounds. Lectures; reference readings; reports. *II*; (2). Assistant Professor EVANS

**[11. Study of Cultivated Plants.]**—The relationship and classification of economic and ornamental plants of the temperate zone; identification of species; examination of living plants and herbarium specimens. Lectures; assigned readings. *I*; (2). Not given, 1919–20.

Professor BLAIR, Professor CRANDALL

*Prerequisite:* Botany 4a.]

**15a. Principles of Plant Growing.**—Preparation of soils for greenhouse crops; fertilizers; potting and shifting plants; watering. Lectures; practical greenhouse work. *II*; (5).

Professor DORNER

*Prerequisite:* Horticulture 5; Botany 1.

**15b. Commercial Crops.**—Greenhouse plants and cut flowers for wholesale and retail markets; care and marketing of the crops. Lectures; greenhouse work. *I*; (5).

Mr. HALL

*Prerequisite:* Horticulture 15a.

**19. Amateur Floriculture.**—Window gardening; growing of flowers on the home grounds; containers; potting soils; fertilizers; preparation and planting of flowers beds; propagation and culture of plants for window and garden. *I*; (3). Professor DORNER

**21a. Landscape Design (Sophomore Course).**—Simple composition as applied to landscape design; types of drafting and presentation used in office practise. Lectures and reference readings. 9 hours' drafting, 2 hours' freehand per week. *I*; (4).

Miss McADAMS

*Prerequisite:* Architecture 32.

**21b. Landscape Design (Sophomore Course).**—Small private estates and gardens in city and suburban developments; lectures and reference readings. 9 hours' drafting, 3 hours' freehand per week. *II*; (4).

Miss McADAMS

*Prerequisite:* Horticulture 21a.

**22a-22b. Investigation and Thesis.**—Special training in the investigation of horticultural problems. *I, II*; (5-10).

*Prerequisite:* Senior standing or permission of the head of the department.

**23a-23b. Landscape Design (Junior Course).**—Landscape design as applied to country estates, extensive garden planning, city parks, playgrounds, and the grounds of public institutions. Nine hours' drafting, 3 hours' freehand per week. Lectures; field trips; assigned readings; reports. *I, II*; (4).

Mr. HILL

*Prerequisite:* Horticulture 21b.

**24a. Trees and Shrubs.**—Identification and characteristics of hardy plant material used in landscape gardening. Lectures; reference readings; field trips. *II*; (3).

Mr. HILL

*Prerequisite:* Botany 1.

**24b. Trees and Shrubs.**—(Continuation of Horticulture 24a.) Lectures; reference readings; field trips. *I*; (3).

Mr. HILL

*Prerequisite:* Horticulture 24a.

**25a-25b. Advanced Landscape Design (Senior Course).**—Landscape design as applied to larger landscape problems, educational groups, rural parks, golf courses, cemeteries, etc. Lectures; field trips; assigned readings. 12 hours drafting, 3 hours' freehand per week. *I, II*; (5). (Extra hours by special arrangement.)

Assistant Professor EVANS

*Prerequisite:* Horticulture 23b.

**26a. Planting Design (First Course).**—The planting of private estates and gardens. Problems based on those worked out in courses 21b and 23b. Planting; lectures; drafting;

reference readings; field trips; planting specifications; reports. Six hours' drafting; one lecture. *II*; (3). Assistant Professor EVANS

*Prerequisite*: Horticulture 23a, 24b.

**26b. Planting Design (Second Course).**—The planting of public properties, parks, golf courses, cemeteries. Problems based on those worked out in courses 23b and 25. Lectures; drafting; conferences. Six hours' drafting, one lecture. *I*; (3).

Assistant Professor EVANS

*Prerequisite*: Horticulture 26a.

**27a-27b. Landscape Construction.**—The preparation of construction drawings such as grading plans, working drawings, specifications and reports. *I, II*; (3). Mr. HILL

*Prerequisite*: Civil Engineering 32.

**29a. Garden Design.**—The garden in its relation to the house; architectural harmony, utilization, topographic conditions, and planting for architectural or horticultural emphasis. Eight hours' drafting; one lecture. *I*; (3).

*Prerequisite*: Architecture 32.

**29b. Garden Design.**—The designing of period gardens and their relation to garden design. Eight hours' drafting; one lecture. *II*; (3).

*Prerequisite*: Horticulture 23a or Architecture 33.

**30. Decorative and Bedding Plants.**—Tropical and sub-tropical plants used in decorative work in the conservatory; tender plants used in out-door bedding. Lectures; practical greenhouse work. *II*; (5). Mr. HALL

*Prerequisite*: Horticulture 15a.

**31. Garden Flowers.**—The propagation and growing of annuals, herbaceous perennials, bulbs, and shrubs for cut flowers and ornamental plantings. *II*; (3).

Professor DORNER

*Prerequisite*: Horticulture 5; Botany 1.

**32a. Floral Decoration.**—Cut flowers and plants in decorative work; arrangement of flowers in baskets, designs, and bouquets, table decoration; house decoration. (For floricultural students). *I*; (3). Professor DORNER

**32b. Floral Decoration.** (Continuation of Horticulture 32a). *II*; (3).

Professor DORNER

*Prerequisite*: Horticulture 32a.

**33. Systematic Pomology.**—Description, nomenclature, and classification of native and sub-tropical fruits; critical descriptions and identifications with special reference to relationships and classification of varieties. Training is given in judging and displaying fruits. (For students specializing in pomology.) *I*; (2). Mr. BROCK

*Prerequisite*: Junior standing.

**34. Vegetables under Glass.**—Types of greenhouses for vegetable forcing; soils; fertilizers; treatment of insects and diseases; management problems; marketing; detailed study of the principal forcing crops. Lectures; reference readings; practical laboratory work. *I*; (3). Mr. VOLZ

*Prerequisite*: Horticulture 3, 15a.

**36. History of Landscape Gardening.**—Lectures; reference readings; library sketches; reports. Required of freshmen in the professional course; open to other students by permission of the instructors in charge. *I*; (3). Assistant Professor EVANS

**37a. City Planning.**—Principles of town and city planning; a study of the function of the various parts of towns and cities, with special reference to the remodeling and revision of the town plan. Lectures; field trips; reference readings; reports; drafting. *I*; (3).

Assistant Professor EVANS

*Prerequisite:* Senior standing in landscape gardening. By permission of the instructor open also to students of senior standing in civil and municipal engineering, political science, and commerce.

**37b. City Planning.**—Principles of town and city planning; with special attention given to guiding the growth of communities, zoning and districting; industrial and suburban residential community planning. Lectures; reference readings; drafting; textbook. *II*; (3).

Assistant Professor EVANS

*Prerequisite:* Horticulture 37a.

**38. Office Practise in Landscape Gardening.**—Legislation authorizing and promoting the ends of city planning. Contracts and specifications. Three weeks in senior year. Lectures; reference readings; textbook. *II*; (1). Assistant Professor EVANS, Mr. HILL

*Prerequisite:* Horticulture 27b and 23b.

**39a-39b. Special Lectures.**—Lectures by members of the faculty and invited lecturers, on the working out of problems in landscape gardening. Certain inspection trips will be required of the class. The expense of these trips will be about \$2.00. One lecture a week with written reports. (Professional students are required to register in this course each semester of each year.) *I, II*; (1).

Assistant Professor EVANS, Mr. HILL, Miss McADAMS

*Prerequisite:* Permission of the instructor in charge.

**40. Trees and Shrubs (Advanced Course.)**—Care of plant material. Cultivation of plants for landscape purposes, planting, pruning, spraying, tree surgery and landscape forestry as applied to private estates, parks, and street planting. *II*; (3).

*Prerequisite:* Horticulture 24b; senior standing.

**32. Landscape Design (Elementary Course for Non-professional Students).**—The planning and planting of home grounds. Lectures; reference readings; reports; six hours' drafting per week. *II*; (3).

Assistant Professor EVANS, Mr. HILL

**49. Systematic Vegetable Crops.**—Types; varieties; strains; nomenclature; descriptions. Adaptation to given purposes. Selection of specimens for market and exhibition. Judging vegetable exhibits. Lectures; research; laboratory. *I*; (2).

Professor LLOYD

*Prerequisite:* Horticulture 3.

**50. Vegetable Seed Production.**—Importance of the industry; sources of supply; climatic influences; seedsmen's trial grounds. Selection of specimens for stock seed; winter storage of biennials for seed purposes; planting and care of the growing seed crop; "roguing"; harvesting, curing, and storage of seeds. Determinations of purity and germination; official standards. The American seed trade; seedsmen's responsibilities and opportunities; improvement of varieties; introduction of novelties. Lectures; research; laboratory. *II*; (3).

Professor LLOYD

*Prerequisite:* Horticulture 49.

**51. Fruit Diseases.**—A study of the bacterial and fungous diseases of tree and small fruits. Symptomology and control measures are emphasized. In addition to laboratory studies, the diseases are studied in the field wherever possible, so that the student may become acquainted with the parasites in their natural habitats. *II*; (3).

Assistant Professor ANDERSON

*Prerequisite:* Senior standing; Botany 7a or its equivalent.

## Courses for Advanced Undergraduates and Graduates

**8. Orcharding.**—Pomaceous, drupaceous, and nut fruits; management of large commercial orchards; harvesting; grading; packing; storing; marketing. *I*; (5).

Professor PICKETT, Mr. BROCK

*Prerequisite:* Junior standing.

**12. Evolution of Horticultural Plants.**—History, botanical classification, and geographical distribution of cultivated plants; modification under culture; theoretical causes and observed factors that influence variation, particularly food supply, climate, and cross-fertilization. *I*; (3).

Professor CRANDALL

*Prerequisite:* Two years of university work; Horticulture 8 and Botany 4a.

**17. Commercial Orcharding.**—(Continuation of Horticulture 8.) Production and business methods in large orchards; reference readings; seminar. A required trip will be taken, cost not to exceed \$10.00. For students specializing in pomology. *II*; (5).

Professor PICKETT

*Prerequisite:* Horticulture 8 or its equivalent.

**18. Experimental Horticulture.**—Methods and difficulties in horticultural investigations; the planning of experiments; recording and interpretation of results. For advanced students preparing for experiment station work. *II*; (5).

Professor BLAIR, Professor PICKETT

*Prerequisite:* Twenty hours' work in horticulture.

**43. Greenhouse Fertilizers.**—Soils and fertilizers; plant food materials and the water requirements of greenhouse crops. Lectures; seminar. *I*; (3).

Assistant Professor LEHENBAUER

*Prerequisite:* Botany 27a; Agronomy 9; Horticulture 3 or 15a.

**44. Pomology Seminar.**—Assigned topics; review of books, current technical journals, and other publications. For seniors and graduates specializing in pomology. *I*; (½).

Professor PICKETT, Assistant Professor RUTH

*Prerequisite:* Senior standing.

**45. Plant Nutrition.**—The food of plants; growth of greenhouse plants in relation to temperature, light, humidity, and carbon dioxide content of the air. Lectures; assigned readings; seminar. *II*; (3).

Assistant Professor LEHENBAUER

*Prerequisite:* Botany 27a; Agronomy 9; Horticulture 3 or 15a.

**46. Marketing Horticultural Products.**—A study of fundamental principles involved in the successful marketing of fruits and vegetables. For seniors and graduates specializing in horticulture. *I*; (2).

Professor LLOYD

*Prerequisite:* Senior standing.

## Courses for Graduates

At least two years of collegiate work in horticulture and allied subjects and specific preparation for chosen topics are required for entrance on major work in this department.

**103. Olericulture.**—Horticultural relationships, origins, breeding, fertilizing, cultural requirements, and improvement of vegetables. Conferences. *I*, *II*; (1-2).

Professor LLOYD

**108. Pomology.**—Special problems in the relationship, adaptation, improvement, propagation, cultivation, pruning, protection, perservation, or marketing of small fruits and orchard fruits. Conferences. *I*, *II*; (1-2).

Professor BLAIR, Professor CRANDALL, Professor LLOYD, Professor PICKETT

**115. Floriculture.**—The horticultural status of flowering plants, or special problems in the culture of greenhouse plants. *I*, *II*; (1-2).

Professor DORNER

## Summer Session Courses

**51a. Elements of Fruit Growing.**—Fruit growing with special references to the home fruit garden. Recitations, lectures, and practical exercises. (2). Professor PICKETT  
*Equivalent:* Horticulture 1a (in part).

**S2. Small Fruits and Grapes.**—The strawberry, raspberry, blackberry, dewberry, currant, gooseberry, and grape. History; extent of cultivation; soil; location; fertilizers; propagation; planting; tillage; pruning; insect enemies; diseases; varieties; harvesting; marketing. Lectures, recitations, and laboratory exercises. (3). Professor PICKETT  
*Equivalent:* Horticulture 2 (in part).

## HYGIENE AND PUBLIC HEALTH

J HOWARD BEARD, A.M., M.D., *Professor of Hygiene and University Health Officer*

GERTRUDE EVELYN MOULTON, A.B., M.D., *Medical Adviser to Women*

MAX LAMPERT, M.D., *Assistant to University Health Officer*

**3. General Hygiene.**—Hygiene as applied to the individual, to the home, to the school, and to the community. II; (3). Dr. BEARD, Dr. LAMBERT

## LANDSCAPE GARDENING

(See HORTICULTURE.)

## LATIN

(See CLASSICS.)

## LAW

HENRY WINTHROP BALLANTINE, A.B., LL.B., *Professor and Dean*

OLIVER ALBERT HARKER, A.M., LL.D., *Professor*

FREDERICK GREEN, A.M., LL.B., *Professor*

EDWARD HARRIS DECKER,<sup>1</sup> A.B., LL.B., *Professor*

WILLIAM GREEN HALE, B.S., LL.B., *Professor*

JOHN NORTON POMEROY,<sup>1</sup> A.M., LL.B., *Professor*

BURKE SHARTEL, A.B., J.D., S.J.D., *Assistant Professor*

WILLIAM EVERETT BRITTON, A.M., J.D., *Assistant Professor*

## Schedule of Courses 1919-20

## First Year Courses

**1a-1b. Contracts.**—Keener's *Cases on Contracts* and Ballantine's *Problems in Law of Contracts*. I; (3); II; (3). Mr. BALLANTINE

**2a-2b. Torts.**—Ames and Smith's *Cases on Torts*. I; (3); II; (2). Mr. HALE

**5. Criminal Law.**—Beale's *Cases on Criminal Law*, (3rd edition). I; (3).

Mr. SHARTEL

**6. Personal Property.**—Warren's *Cases on Property*. I; (3).

Mr. GREEN

**7. Domestic Relations.**—Kale's *Cases on Persons* (2nd edition). II; (2).

Mr. GREEN

**10. Real Property.**—Aigler's *Cases on Property* (2nd edition). II; (3).

Mr. SHARTEL

**11. Agency.**—Wambaugh's *Cases on Agency*. II; (3).

Mr. GREEN

**37a-37b. Brief Making.**—I; (2); II; (2).

Mr. BRITTON

<sup>1</sup>On leave of absence.

## Second and Third Year Courses

4. Common Law Pleading.—Ames' *Cases on Common Law Pleading*. I; (3).  
Mr. HARKER
  8. Evidence.—Thayer's *Cases on Evidence* (2nd edition). I; (4).  
Mr. HALE
  9. Sales.—Williston's *Cases on Sales* (2nd edition). II; (3).  
Mr. HALE
  - 12a-12b. Equity.—Ames's *Cases on Equity*. I; (3); II; (2).  
Mr. SHARTEL
  - [13. Damages.—Beale's *Cases on Damages* (2nd edition). Not given 1919-20.  
Mr. GREEN]
  - [14. Carriers.—Green's *Cases on Carriers*. II; (3). Not given 1919-20.  
Mr. GREEN]
  15. Bills and Notes.—Smith and Moore: *Cases on Bills and Notes*. I; (3).  
Mr. BRITTON
  16. Trusts.—Scott's *Cases on Trusts*.—I; (3).  
Mr. BALLANTINE
  - [17. Private Corporations.—Canfield and Wormser's *Cases on Private Corporations*.  
II; (4). Not given, 1919-20.  
Mr. GREEN]
  - [18. Wills.—Gray's *Cases on Property*. Vol. IV (2nd edition). II; (2). Not  
given, 1919-20.  
Mr. POMEROY]
  19. Partnership.—Gilmore's *Cases on Partnership* (2nd edition). II; (2).  
Mr. SHARTEL
  20. Equity Pleading.—Rush: *Cases on Equity Pleading*. II; (2).  
Mr. HARKER
  - [21. Suretyship.—Ames' *Cases on Suretyship*. I; (3). Not given, 1919-20.  
Mr. DECKER]
- Prerequisite:* Law 15.
- [22. Constitutional Law.—Hall's *Cases on Constitutional Law*. I; (3). II; (2).  
Mr. GREEN]
  23. Mortgages and the Recording Acts.—Durfee's *Cases on Mortgages*. II; (3).  
Mr. HARKER
  - [24. Municipal Corporations.—Beale's *Cases on Municipal Corporations*. II; (2).  
Not given, 1919-20.  
Mr. POMEROY]
  25. Bankruptcy.—Williston's *Cases on Bankruptcy* (2nd edition.) II; (2).  
Mr. BRITTON
  26. Legal Ethics.—Costigan: *Cases on Legal Ethics*. I; (1).  
Mr. BALLANTINE
  27. Future Interests in Property.—Kales' *Cases*. II; (3).  
Mr. BALLANTINE
  29. Office Practise.—Selected abstracts and problems. I; (1).  
Mr. HARKER
  30. Public International Law.—Lawrence's *Principles of International Law* and  
Evans' *Cases on International Law*. I; (3).  
Mr. GARNER
  31. Conflict of Laws.—Beale's *Shorter Selection of Cases on Conflict of Laws*. I; (3).  
Mr. SHARTEL
  - [32. Quasi-Contracts.—Thurston's *Cases on Quasi-Contracts*. I; (2). Not  
given, 1919-20.  
Mr. POMEROY]
  33. Real Property.—Bigelow: *Rights in Another's Lands*. I; (2).  
Mr. BRITTON
  34. Public Utilities.—I; (3).  
Mr. GREEN
  - [35. Illinois Procedure.—II; (3). Not given, 1919-20.  
Mr. HARKER]
  - 36a-36b. Practise Court.—I; II; (2).  
Mr. HARKER
  40. Law of the Press. II; Open to Sophomores.  
Mr. HALE
  42. Trial Practise.—II; (3). Hinton's *Cases on Trial Practise*.  
Mr. BRITTON

## INDUSTRIAL EDUCATION

IRA SAMUEL GRIFFITH, A.B., *Professor*

JAMES MCKINNEY, *Assistant Professor, and Director of Chicago Center*

CARL ALBERT HOFFMAN, *Instructor, Chicago Center*

EDWIN ALBERT FRITSCH, *Instructor, Chicago Center*

FREDERICK E PRICE, B.S., *Instructor, Chicago Center*

EMIL JOSI, A.M., *Instructor, Chicago Center*

ARTHUR POMEROY LAUGHLIN, M.S., *Instructor, Chicago Center*

[1. **Craft Production.**—*I*; (4). Not given, 1919–20.]

[2. **Quantity Production.**—*II*; (4). Not given, 1919–20.

*Prerequisite:* Industrial Education 1.]

**50. Survey of Industrial Education.**—Manual arts and industrial education in the United States; the Smith-Hughes Act as it has to do with Industrial Education; Illinois state plans and provisions; analyzing and classifying industrial content for instructional purposes; practise. *I*; (3). Professor GRIFFITH, Assistant Professor MCKINNEY

*Prerequisite:* Contact with trade or industry through (a) one or more of such courses as Industrial Education 1, 2, 3, M.E., 75, 77, 79, 81, 82; or, (b) practical commercial courses, as accounting, typewriting, salesmanship; or, (c) such household science courses as have a direct bearing upon the work of women or men in industry; or (d) practical experience in industry or commerce of not less than six months, eight hours per day, five and one-half days per week, or the equivalent, or consent of instructor.

**52. Teaching Related Trade Subjects.**—Mathematics, science, and drawing, and similar subjects, applied, in industrial schools and classes; practise in analyzing and classifying the content of such subjects for instructional purposes, and in relating the same to trade or industrial content. Lesson planning. *II*; (3). Professor GRIFFITH

*Prerequisite:* (a) A minimum of five hours in each and ten hours in some one of the following: College mathematics; physics; chemistry; mechanical and freehand drawing; shopwork; (b) Education 25, Education 10, concurrently; Industrial Education 50.

[53a–53b. **Supervised Teaching of Related Trade Subjects.**—*I, II*; (2). Not given, 1919–20.

*Prerequisite:* Industrial Education 52.]

**54. Teaching General Continuation Subjects.**—Teaching in continuation schools such subjects as history, geography, economics, English, mathematics, sanitation, safety and hygiene, and citizenship; practise in analyzing and classifying content of such subjects for instructional purposes. Lesson planning. *II*; (3).

Professor GRIFFITH, Assistant Professor MCKINNEY

*Prerequisite:* (a) A minimum of five hours in each and ten hours in some one of the following groups: (1) Economics 7, 22, 26, 27, 1 or 2; Geology 35; (2) Rhetoric 1, 2, 3a or 3b, 10; Public Speaking 1, 2; (3) Physiology 2, 3; Physical Training, Hygiene; (4) Political Science 1, 3, 4, 11; Sociology 1. (5) History; (b) Education 25, Education 10, concurrently; Industrial Education 50, or consent of instructor.

[55a–55b. **Supervised Teaching of General Continuation Subjects.** *I, II*; (2). Not given, 1919–20.

*Prerequisite:* Industrial Education 54.]

**56. Teaching Shopwork.**<sup>1</sup>—Teaching shopwork in industrial schools and classes;

<sup>1</sup> This work is given in evening schools in industrial centers of the state and in the summer school only.



practise in analyzing and classifying trade and industrial content for effective instruction. Lesson planning; management; supervised teaching.

Professor GRIFFITH, Assistant Professor MCKINNEY, Mr. HOFFMAN, Mr. FRITSCH, Mr. PRICE, Mr. JOSI, Mr. LAUGHLIN.

*Prerequisite:* (a) Two years of trade or industrial experience beyond the apprenticeship period; (b) Completion of an elementary curriculum or its equivalent.

[58. **Organization of Industrial Education.**—*I*; (3). Not given, 1919–20.

*Prerequisite:* Industrial Education 50 and 52 or 54 or 56.]

[60. **Teaching Manual Arts.**—*II*; (3). Not given, 1919–20.

*Prerequisite:* G. E. D. 1; Education 25, Education 10, concurrently: Industrial Education 50.]

[61a-61b. **Supervised Teaching of Manual Arts.**—*I, II*; (2). Not given, 1919–20).

*Prerequisite:* Industrial Education 60.]

[62. **Organization of Manual Arts.**—*I*; (3). Not given, 1919–20.

*Prerequisite:* Industrial Education 60.]

### Summer Session Courses

S2. **Woodwork.**—Mastery of woodworking handtools, technical terminology, conventional methods of procedure. (3). Mr. HALL

S3. **Furniture Construction.**—Construction and finishing of furniture. Use of wood-working machinery; woodturning. (3). Mr. HALL

S50. **Introduction to Industrial Education.**—Equivalent to course 50.

Assistant Professor MCKINNEY

S52. **Teaching Related Technical Subjects.**—Equivalent to course 52. Mr. NOEL

S54. **Teaching Non-Vocational Subjects.**—Equivalent to course 54. Mr. NOEL

S56. **Teaching Shopwork.**—Equivalent to course 56.

Assistant Professor MCKINNEY

S57. **Teaching Commercial Work.**—Aims and methods best suited to teaching practical commercial work in part-time general continuation schools and classes; practise in analyzing and classifying the content of such subjects for instructional purposes. Lesson planning; management. (3).

Assistant Professor MCKINNEY

S62. **Organization, Administration, and Supervision of Manual Arts.**—Organization, administration, and supervision of manual arts in the different grades of the elementary and secondary schools. (3).

Professor CRAWSHAW

### LIBRARY SCIENCE

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director*

FRANCES SIMPSON, M.L., B.L.S., *Assistant Director, Assistant Professor*

FLORENCE RISING CURTIS, A.M., B.L.S., *Assistant Professor*

JOHN SIMEON CLEAVINGER, A.B., B.L.S., *Associate*

ETHEL BOND, A.B., B.L.S., *Instructor*

ANNE MORRIS BOYD, A.B., B.L.S., *Instructor*

EVA CLOUD TAYLOR, *Special Lecturer*

JOSIE BATCHELLER HOUCHEMS, A.M., B.L.S., *Lecturer*

MARGARET HUTCHINS, A.B., B.L.S., *Lecturer, General Reference*

ALICE SARAH JOHNSON, A.B., B.L.S., *Lecturer, General Reference*

MARGARET STUART WILLIAMS, A.B., B.L.S., *Lecturer, General Reference*

SARAH LAWSON, B.S., *Reviser*

## Courses for Freshmen and Sophomores

**12. General Reference.**—Classification and arrangement of books in the University library; the card catalogs; the more generally used reference books. (Intended for freshmen and sophomores in the University, not for students in Library School.) Repeated each semester. *I* or *II*; (2).

Miss HUTCHINS, Miss BOYD, Miss JOHNSON, Miss WILLIAMS, Miss BOND, Mr. CLEAVINGER

## Courses for Library School Juniors

**2a-2b. Reference.**—Methods of bibliographical research; the use of reference books; practical work in the reference department of the University library. *I, II*; (3).

Miss SIMPSON

**3a-3b. Selection of Books.**—Principles of selection for libraries of different types; standard lists, critical periodicals, and other aids; practise in writing book annotations. *I, II*; (2).

Miss BOYD

**16. Order, Accession, and Shelf.**—Order department records and routine book-buying; publishers and discounts; serials and continuations; gifts; exchanges; duplicates; the accession book and its substitutes; the shelf list and its uses; the care of pamphlets, clippings, and maps. *I*; (2).

Miss CURTIS

**17. Classification.**—Principles of book classification; the Dewey Decimal Classification; the Cutter Expansive Classification; book numbers. *I*; (3).

Miss BOND

**18. Cataloging.**—Dictionary cataloging; subject headings; classed cataloging. *I*; (3).

Miss BOND

**19. Trade Bibliography.**—Books and periodicals used as tools of the book trade of America, England, Germany, and France. *II*; (1).

Miss BOND

**20. Loan Department.**—Records connected with the loan of books; representative loan systems; rules, regulations, and practises. *I*; (1).

Mr. CLEAVINGER

**21. Printing, Binding, and Indexing.**—*Printing*: printing for libraries; preparing copy and reading proof. *Binding*: materials and methods of bookbinding for libraries; practise in preparing books for the bindery and in making necessary records. *Indexing*: indexing; the form of citation; the choice and arrangements of headings; kind of type. *II*; (2).

Mr. WINDSOR, Miss CURTIS

**22. Library Extension.**—Library legislation; organization and administration of public libraries; county and township library systems; special libraries; library commissions; library training; library associations. *II*; (3).

Miss CURTIS

**23a-23b. Library Administration and Current Library Literature.**—Current library periodicals, bulletins, reports, catalogs, and reading lists; copyright; the organization, reorganization, and administration of small libraries; the planning and equipment of reading rooms and small library buildings; library accounts and business forms. This course includes an inspection trip to libraries and book-publishing firms in selected cities, requiring about one week and costing approximately twenty-five dollars (\$25.00). *I, II*; (1).

Mr. CLEAVINGER

**30. Practise.**—Work in the various departments of the University library. To be taken with Library 2, 16, 17, 18, 19, 20, and 21. *II*; (3).

Mr. CLEAVINGER

## Courses for Library School Juniors and Seniors

**[7. History of Libraries.**—The foundation, development, and resources of the leading libraries of Europe and the United States. *II*; (2). Given in alternate years. (Not given 1919-20.)

Miss SIMPSON]

9. **History of Books and Printing.**—History of the early forms of books; the invention and spread of printing; book illustration; book-binding. *II*; (2). Given in alternate years. Mr. WINDSOR

### Courses for Library School Seniors

8. **Advanced Reference.**—Transactions of learned societies; special periodicals and government publications; indexes and other works of value to a large reference department. *I*; (2). Miss SIMPSON

*Prerequisite:* Library 2a-2b.

15a-15b. **Seminar in Library Economy.**—Special problems; library economy publications. *I, II*; (2). Miss CURTIS and others

24a-24b. **Selection of Books.**—English translations of representative works of French, German, Spanish, Italian, and Russian novelists of the 19th century; examination of about forty newly published books each month. *I, II*; (2). Mr. CLEAVINGER

26a-26b. **Library Administration.**—Advanced order work; library organization; library architecture; legislative and municipal reference work; library work with children; special topics. This course includes an inspection trip to libraries and book-publishing firms in selected cities, requiring about one week and costing approximately twenty-five dollars (\$25.00); and also one month of field work in a designated library, costing approximately forty-five dollars (\$45.00). *I, II*; (3). Mr. CLEAVINGER and others

27. **Bibliographical Institutions.**—Organization and work of bibliographical societies and institutions of America and Europe; cooperative bibliographical undertakings; international bibliography. *I*; (1). Miss CURTIS

28. **Practise.**—Advanced practise in certain departments of the University library. *II*; (1 to 4).<sup>1</sup> Time to be arranged. Miss SIMPSON

29. **Advanced Classification and Cataloging.**—Systems of book classification; comparative rules for cataloging books. *II*; (2). Miss BOND

*Prerequisite:* Library 17, 18.

40a-40b. **Practise.**—A continuation of Library 30 supplemented by one month of work as a member of the staff of an assigned public or other library. *I, II*; (3). Miss HOUGHENS

41a-41b. **Subject Bibliography.**—Selection of books in special subjects; the literature and bibliography of each. Lectures by professors in the respective departments of the University. *I, II*; (1). Mr. WINDSOR and others

13a-42. **Public Documents.**—First semester: production and distribution of United States documents; their treatment and use as reference books. Second semester: American state and municipal documents; publications of foreign governments. *I, II*. (2 and 3). Miss CURTIS

### Summer Session Curriculums

During the academic year if 1918-19, in connection with the University of Illinois summer session, the Library School offered for the first time two curriculums.

Curriculum A consists of eight weeks' courses for college graduation. This curriculum receives full University credit. Only those students are registered in its courses who can meet the entrance requirements of the Library School.

S2a. **Reference.**—(3).

Miss BOYD

*Equivalent:* Course 2a-2b.

<sup>1</sup> In registering for a course with variable credit hours, a student must put down on his study-list *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not 1-4, but 1, or 2, or 3, or 4.

**S16. Order, Accession, and Shelf.—(2).**

Mr. CLEAVINGER

*Equivalent:* Course 16.**S18. Cataloging.—(3).**

Miss BOND

Curriculum B consists of six weeks elementary courses for which no University credit is given. This curriculum is intended for persons not eligible for admission to the Library School and such students must hold library positions or be under appointment to positions.

**S1. Classification.**—Cataloging; Book Numbers. *Five times a week.*

**S2. Reference Work.**—Reference books suited to the small public library. *Twice a week.*

**S3. Selection of Books.**—Book selection and subject bibliography. *Twice a week.*

**S4. Work with Children.**—Selection and discussion of children's books; administration of children's libraries; classification and cataloging. *Twice a week.*

**S5. Order and Accession.**—Loan Department; Binding and Repair. *Twice a week.*

**S5. Library Administration and Extension.**—*Twice a week.*

**MATHEMATICS**EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor*GEORGE ABRAM MILLER, Ph.D., *Professor*JAMES BYRNIE SHAW, D.Sc., *Professor*ARTHUR B COBLE, Ph.D., *Professor*ROBERT D CARMICHAEL, Ph.D., *Associate Professor*ARNOLD EMCH, Ph.D., *Associate Professor*ARTHUR ROBERT CRATHORNE, Ph.D., *Assistant Professor*GUSTAF ERIC WAHLIN, Ph.D., *Assistant Professor*AUBREY JOHN KEMPNER, Ph.D., *Assistant Professor*HENRY BLUMBERG, Ph.D., *Assistant Professor*ERNEST BARNES LYTLE, Ph.D., *Associate*JOHN ROBERT KLINE, Ph.D., *Associate*WALTER WOLLEBEN KUSTERMANN, Ph.D., *Associate*RAYMOND FRANKLIN BORDEN, Ph.D., *Instructor*JOSEPHINE BURNS GLASGOW, Ph.D., *Instructor*ELIZABETH BENNETT GRENNAN, Ph.D., *Instructor*CHESTER CLAREMONT CAMP, Ph. D., *Instructor*CLARENCE MARK HEBBERT, Ph.D., *Instructor*ROSCOE WOODS, M.S., *Assistant*LEONARD LEO STEIMLEY, A.M., *Assistant*JOSEPH BERNHARDT ROSENBAACH, M.S., *Assistant*BERNHARD PAUL REINSCH, A.B., *Assistant*WILLIAM EDMUND EDINGTON, A.M., *Assistant*CHARLES FRANCIS GREEN, A.M., *Assistant*HARVEY PIERSON PETTIT, A.M., *Assistant*FRANK GUSTAVE WAHLEN, M.S., *Assistant*EDWARD HAMMOND VANCE, A.M., *Assistant*WALTER GRISEMER, A.B., *Assistant*MARIE TRIMBLE ALLEN, A.B., *Assistant**Cooperating:*JOEL STEBBINS, Ph.D., *Professor of Astronomy*

## Courses for Undergraduates

**2. College Algebra.**—*I* or *II*; (3).

Professor MILLER, Professor COBLE, Assistant Professor BLUMBERG, Dr. LYTLE, Dr. KLINE, Dr. KUSTERMANN, Dr. BORDEN, Dr. GLASGOW, Dr. GRENNAN, Dr. CAMP, Dr. HEBBERT, Mr. WOODS, Mr. STEIMLEY, Mr. REINSCH, Mr. EDINGTON, Mr. ROSENBAACH, Mr. GREEN, Mr. PETTIT, Mr. WAHLEN, Mr. VANCE, Mr. GRISEMER.

*Prerequisite:* Entrance algebra,  $1\frac{1}{2}$  units; plane geometry, 1 unit.

**3. Algebra.**—(For students presenting only one unit of entrance algebra.) In addition to the work of college algebra (Math. 2), there is covered the more advanced topics of elementary algebra. *I*; (5).

Assistant Professor KEMPNER, Dr. KUSTERMANN, Dr. GRENNAN, Dr. GLASGOW, Dr. HEBBERT, Mr. WOODS, Miss ALLEN.

*Prerequisite:* Entrance algebra, 1 unit; plane geometry, 1 unit.

**4. Plane Trigonometry.**—*I* or *II*; (2).

Associate Professor CARMICHAEL, Assistant Professor KEMPNER, Assistant Professor BLUMBERG, Dr. LYTLE, Dr. KLINE, Dr. KUSTERMANN, Dr. BORDEN, Dr. GLASGOW, Dr. GRENNAN, Dr. CAMP, Mr. STEIMLEY, Mr. ROSENBAACH, Mr. WOODS, Mr. EDINGTON, Mr. GREEN, Mr. PETTIT, Mr. WAHLEN, Mr. REINSCH, Mr. VANCE, Mr. GRISEMER.

*Prerequisite:* Entrance algebra,  $1\frac{1}{2}$  units, plane geometry, 1 unit.

**6. Analytic Geometry.**—Plane and solid analytic geometry. *I* or *II*; (5).

Professor SHAW, Associate Professor EMCH, Assistant Professor WAHLIN, Dr. LYTLE, Dr. KLINE, Dr. KUSTERMANN, Dr. BORDEN, Dr. GRENNAN, Dr. GLASGOW, Dr. HEBBERT, Dr. CAMP, Mr. EDINGTON, Mr. STEIMLEY, Mr. WOODS, Mr. ROSENBAACH, Mr. GREEN, Mr. WAHLEN, Mr. PETTIT, Mr. REINSCH, Miss ALLEN, Mr. VANCE, Mr. GRISEMER.

*Prerequisite:* Mathematics 2 (or 3), 4.

**6a. Analytic Geometry.**—(For chemists and chemical engineers.) Plane and solid analytic geometry. This course is planned as a preparation for Math. 8. *II*; (4).

Assistant Professor BLUMBERG, Dr. GRENNAN

*Prerequisite:* Mathematics 2 (or 3), 4.

**7-9. Differential and Integral Calculus.**—The principles developed and applied to functions of one and of several variables. *I*; (5); *II*; (3).

Professor TOWNSEND, Professor MILLER, Professor SHAW, Professor COBLE, Associate Professor CARMICHAEL, Associate Professor EMCH, Assistant Professor CRATHORNE, Assistant Professor WAHLIN, Assistant Professor BLUMBERG, Dr. LYTLE, Dr. KLINE, Dr. BORDEN, Dr. CAMP, Dr. GLASGOW.

NOTE.—Three sections of Mathematics 7 are given the second semester.

*Prerequisite:* Mathematics 6.

**8a-8b. Differential and Integral Calculus.**—(For students in Chemistry and Chemical Engineering.) *I, II*; (3).

Assistant Professor KEMPNER

*Prerequisite:* Mathematics 6a or 6.

**9a. Differential and Integral Calculus.**—(Second course.) The definite (single and multiple) integrals; the formation of problems is applied mathematics; line, surface, and volume integrals; the theorem of Stokes and Green; partial differentiation; exact integrals with applications of the conditions for exactness; elements of differential equations, approximate quadrature and integration of differential equations. *I*; (2).

Professor SHAW, Assistant Professor CRATHORNE, Assistant Professor WAHLIN

*Prerequisite:* Mathematics 7 and 9 (or 8).

## Courses for Advanced Undergraduates and Graduates

**10. Theory of Equations and Determinants.**—Properties of an algebraic equation in one unknown; systems of simultaneous equations; a system of linear equations; determinants. *I*; (3). Professor MILLER

*Prerequisite:* Mathematics 7 and 9 (or 8).

**16-17. Differential Equations and Advanced Calculus.**—Ordinary and partial differential equations; special topics of calculus. *I, II*; (3). Professor TOWNSEND

*Prerequisite:* Mathematics 7 and 9 (or 8).

**18. Constructive Geometry.**—Space perception; lines, planes, and the simpler surfaces of the second order, studied by parallel and central projection; graphic interpretation of the processes of analytic geometry; analytic discussion of the methods of descriptive geometry. *II*; (3). Associate Professor EMCH

*Prerequisite:* Mathematics 6.

**19. Solid Analytic Geometry.**—Equations of the plane and right line in space; surfaces of the second degree; quadrics; surfaces. *II*; (3). Professor COBLE

*Prerequisite:* Mathematics 10.

**21. Method of Least Squares.**—Law of probability and error; adjustment of observations; precision of observation; independent and conditional observations. *I*; (2). Professor STEBBINS

*Prerequisite:* Mathematics 7 and 9, or 8.

**[22. The Theory and Use of Mathematical Instruments.**—The mathematical theory underlying such instruments as the harmonic analyser, the integrator, and various forms of the planimeter, together with their practical use and a consideration of the degree of accuracy. Two lectures, one laboratory period a week. *II*; (3). Not given, 1919-20. Assistant Professor CRATHORNE]

**23. Averages and Mathematics of Investment.**—Meaning, use, and abuse of averages; probability; annuities, insurance, and branches of science; loans and investments; evaluation of investment securities. *II*; (3). Assistant Professor CRATHORNE

*Prerequisite:* Mathematics 2; junior standing.

**30-31. Actuarial Theory.**—Life contingencies; life tables; monetary tables; valuation of policies to meet statutory requirements; risk; distribution of surplus; annual reports; inheritance taxes; old age pensions; workmen's compensation; investing the funds of an insurance company. *I, II*; (3). Assistant Professor CRATHORNE

*Prerequisite:* Mathematics 7 and 9 (or 8), 23.

**[32. History of Mathematics.**—The elementary subjects; rise and growth of the higher mathematics, chiefly in the nineteenth century; biography. Lectures; reports on assigned reading. *II*; (2). Not given, 1919-20. Dr. LYTLE]

*Prerequisite:* Eighteen hours of mathematics.

**35. Teachers' Course.**—Secondary algebra and geometry; educational value; position in course; methods of teaching; correlation; American and foreign methods; order and importance of topics; text-books; literature. Lectures; discussions; reports. *I*; (2). Dr. LYTLE

*Prerequisite:* Eighteen hours of mathematics.

**40. Fundamental Concepts of Mathematics.**—The number concept; unity, aggregate, order, and correspondence; irrationals and limits, transcendence of  $e$  and  $n$ ; parallel axiom and non-euclidian geometrics; constructions with ruler and compass; function; logic of mathematics. *II*; (2). Dr. LYTLE

*Prerequisite:* Eighteen hours of mathematics.

**90-91. Undergraduate Thesis.**—Special training in mathematical investigation for seniors. *I; II; (2).* Members of the department  
*Prerequisite:* Twenty-four hours of college mathematics.

### Courses for Graduates

Students entering on graduate study with a major in Mathematics must have had twenty-five semester hours of undergraduate work in Mathematics, including a year's course in calculus, and a course in theory of equations or in differential equations.

**100. Seminar and Thesis.**—*Three times a week; I, II; (1 or 2 units).*

Professors in department

**101. Functions of Real Variables.**—(Introductory course.) Theory of point sets with applications to problems in differentiation and integration. *Three times a week; I, II; (1 unit).* Professor TOWNSEND

*Prerequisite:* Mathematics 16-17.

**[102. Functions of a Complex Variable.**—*Three times a week; I, II; (1 unit).* Not given, 1919-20. Professor TOWNSEND]

**[105. Calculus of Variations.**—Conditions for a maximum or minimum in simple and isoperimetric problems. *Three times a week; I, II; (1 unit).* Not given, 1919-20.

Assistant Professor CRATHORNE]

**[110a. Elliptic Functions.**—The processes of analysis on which the theory of elliptic functions depends; singly periodic functions; means of approach to the theory of doubly periodic functions; development of the theory from the point of view of definite integrals, and of Mittag-Leffler's partial fraction expansion. *Three times a week. I; (1 unit).* Not given, 1919-20. Associate Professor CARMICHAEL]

**[110b. Elliptic Functions.**—Approach to the theory of doubly periodic functions from the point of view of Weierstrass's product expansion, of  $q$ -difference equations, and of functional equations; applications to geometry, mechanics, and the theory of numbers; periodic functions of two variables. *Three times a week. II; (1 unit).* Not given, 1919-20. Associate Professor CARMICHAEL]

**111a. Automorphic Functions.**—Geometry in the complex plane. The group-theoretic side of the theory. *Three times a week; I; (1 unit).* Professor COBLE

**111b. Automorphic Functions.**—Function-theoretic developments and applications of automorphic function. *Three times a week; II; (1 unit).* Professor COBLE

**[112a. Linear Difference Equations.**—Elementary theory of differences; equations with constant coefficients; etc. *Three times a week; I; (1 unit).* Not given, 1919-20. Associate Professor CARMICHAEL]

**[112b. Linear Difference Equations.**—General expansion problems.—*Three times a week; II; (1 unit).* Not given, 1919-20. Associate Professor CARMICHAEL]

**113. Linear Differential Equations in Real Variables.**—General existence theorems; oscillation theorems and pendulum problems; etc. *Three times a week; I; (1 unit).*

Associate Professor CARMICHAEL

*Prerequisite:* Mathematics 16-17 and consent of instructor.

**114. Linear Differential Equations in Complex Variables.**—General existence theorems, function-theoretic considerations; etc. *Three times a week; II; (1 unit).*

Associate Professor CARMICHAEL

*Prerequisite:* Mathematics 102 (First semester).

122. **Modern Algebra.**—*Three times a week; I, II; (1 unit).*

Assistant Professor KEMPNER

*Prerequisite:* Mathematics 10.

- [124. **Theory of Numbers.**—*Three times a week; I, II; (1 unit).* Not given, 1919–20.  
Assistant Professor WAHLIN]

[125. **Continuous Groups.**—Representation of certain continuous transformation groups by means of ordinary complex numbers. Lie's theory of differential equations, etc. *Three times a week; I; (1 unit).* Not given, 1919–20. Professor MILLER]

[126. **Finite Groups.**—Substitution groups of low degrees. Sylow's theorem; etc. *Three times a semester; Three times a week; II; (1 unit).* Not given, 1919–20.

Professor MILLER]

127. **Theory of Groups.**—Advanced course. *Three times a week; I, II; (1 unit).*

Professor MILLER

*Prerequisite:* Mathematics 125, 126.

[129. **Theory of Statistics.**—Methods of statistical investigation; application to problems in economics, sociology, and biology. *Three times a week; I, II; (1 unit).* Not given, 1919–20. Assistant Professor CRATHORNE]

[130. **Invariants and Higher Plane Curves.**—Applications of the theory of invariants to higher plane curves, etc. *Three times a week; I, II; (1 unit).* Not given, 1919–20.

Professor COBLE]

131. **Algebraic Surfaces.**—The application of homogenous coordinates and the theory of invariants to geometry of three dimensions; etc. *Three times a week; I, II; (1 unit).*

Professor COBLE

*Prerequisite:* Mathematics 19.

- 132a. **Projective Geometry.**—*Three times a week; I; (1 unit).*

Assistant Professor BLUMBERG

*Prerequisite:* Graduate standing in mathematics.

- 132b. **Projective Geometry.**—*Three times a week; II; (1 unit).*

Assistant Professor BLUMBERG

*Prerequisite:* Mathematics 132a.

[135. **Differential Geometry.**—Applications of the calculus to the theory of curves and surfaces based primarily in the use of Cartesian coordinates; relation of the theory of surfaces to the theory of invariants of a pair of quadratic differential forms. *Three times a week; I, II; (1 unit).* Not given, 1919–20.

Professor COBLE]

[141. **Vector Methods.**—The algebras of quaternions, space and analysis, and dyadics; differentials and integrals of space; applications to mechanics, elasticity, hydrodynamics, electrodynamics, and meteorology. *Three times a week; I; (1 unit).* Not given, 1919–20.

Professor SHAW]

[142. **General Vectors.**—The algebras applicable to space of four dimensions, and  $N$  dimensions; differential and integral operators; applications to relativity problems of kinematics, mechanics, electrodynamics; general dyadics and applications. *Three times a week; II; (1 unit).* Not given, 1919–20.

Professor SHAW]

[143. **Linear Algebra.**—A general study of the theory of linear associative and non-associative algebras, particular consideration of the types of algebras, and their chief representatives; applications. *Three times a week; I; (1 unit).* Not given, 1919–20.

Professor SHAW]



**144. General Algebra.**—The general theory of combinations of elements, with a study of the main types such as associativity, commutativity, and other limitation types; applications to the theory of infinite algebras and the theory of general operators. *Three times a week; II; (1 unit).* Not given, 1919-20. Professor SHAW]

**145. Fundamental Functions.**—The theory of orthogonal and biorthogonal functions and expansions in terms of them, with particular study of several well-known cases; applications to the solution of differential and integral equations. *Three times a week; I; (1 unit).*

Professor SHAW

*Prerequisite:* Mathematics 16-17.

**146. Functional Transformations.**—The theory of operators which transform functions into functions, particularly those related to the infinite algebras of orthogonal functions; applications to functions of lines, surfaces, etc., and to integro-differential equations; general infinite vector analysis. *Three times a week; II; (1 unit).*

Professor SHAW

*Prerequisite:* Mathematics 145 or 142.

### Summer Session Courses

The department of mathematics offers at least five courses each summer for graduates and advanced undergraduates, and these courses will be so varied as to enable advanced students to secure a suitable sequence during four or five successive summer sessions to meet the requirements for at least the master's degree. Three of these five courses are of an intermediate grade, open to advanced undergraduates as well as to graduates, while the other two are primarily for graduate students.

The intermediate courses are for the present to be devoted to the following six subjects: Theory of equations and determinants, advanced calculus, constructive geometry, advanced algebra, differential equations, and advanced analytic geometry. It is proposed to give a course on each of these subjects every two years.

The prerequisites and credit values are the same as for these courses in the regular semesters unless otherwise stated.

### Courses for Undergraduates

S2. College Algebra.	Mr. STEIMLEY
S4. Plane Trigonometry.	Mr. STEIMLEY
S6. Analytical Geometry.	Mr. WOODS
S7. Differential Calculus.	Mr. ROSENBACH
S9. Integral Calculus.	Dr. LYTLE

### Courses for Advanced Undergraduates and Graduates

**S10. Theory of Equations and Determinants.**—The roots of unity; the conditions which must be satisfied in order that a given system of linear equations can be solved.  $(2\frac{1}{2})$ .

Associate Professor CARMICHAEL

*Equivalent:* Mathematics 10 (in part).

**S17. Advanced Calculus.**—Derivatives and differentials. Implicit functions; functional determinants; definite and indefinite integrals; improper and line integrals.

Assistant Professor WAHLIN

*Equivalent:* Mathematics 17 (in<sup>3</sup> part).

**S35. Teachers' Course.**—High School algebra and geometry; educational value; analysis of content; movements influencing content; educational principles used in teaching

algebra and geometry; courses and methods of other countries; literature. Lectures, discussions, and reports. Dr. LYTLE

*Prerequisite:* Eighteen hours of college mathematics or the consent of the instructor for teachers with experience.

*Equivalent:* Mathematics 35 (in part).

### Courses for Graduates

**S113. Differential Equations.**—Methods of solution; existence theorems; regular singular points; equations and periodic coefficients. Associate Professor CARMICHAEL

**S124. Theory of Numbers.**—Congruences, binominal congruences with special reference to quadratic congruences; Diophantine analysis. (1 unit).

Assistant Professor WAHLIN

*Prerequisite:* Graduate standing in mathematics.

## MECHANICAL ENGINEERING

CHARLES RUSS RICHARDS, M.E., M.M.E., *Acting Professor and Head of the Department*

GEORGE ALFRED GOODENOUGH, M.E., *Professor, Thermodynamics*

BRUCE WILLET BENEDICT, B.S., *Manager, Shop Laboratories*

OSCAR ADOLPH LEUTWILER, M.E., *Professor, Machine Design*

ARTHUR CUTTS WILLARD, B.S., *Professor, Heating and Ventilation*

ALONZO PLUMSTED KRATZ, M.S., *Research Assistant Professor, Engineering Experiment Station*

HARRY WILLIAM WATERFALL, B.S., *Assistant Professor*

PAUL JAMES KIEFER, A.B., B.S., *Assistant Professor, Steam Engineering*

MATTHEW RUTHERFORD RIDDELL, A.B. Sc., *Assistant Professor, Aeronautic Engineering*

ARTHUR C HARPER, M.E., *Associate, Machine Design*

EARL DOWNING HAY, M.S., *Associate, Machine Design*

GUSTAV HOWARD RADEBAUGH, *Assistant Manager, Shop Laboratories*

LEROY ALONZO WILSON, M.E., M.M.E., *Associate, Experimental Mechanical Engineering*

HUSSEIN HALOUK FIKRET, B.S., *Instructor*

ROSWELL MILLER RENNIE, B.S., *Superintendent, Machine Shop*

BURRILL RUPERT HALL, *Superintendent, Pattern Shop*

ROBERT EDWIN KENNEDY, *Superintendent, Foundry*

EDGAR THOMAS LANHAM, *Superintendent, Forge Shop*

OSCAR WILLIAM SCHRICKER, *Assistant Superintendent, Machine Shop*

AMOS DAVID WRIGHT, *Assistant Superintendent, Pattern Shop*

JOHN GRENNAN, *Assistant Superintendent, Foundry*

PETER JOSETH REBMAN, *Assistant Superintendent, Forge Shop*

VINCENT STEPHEN DAY, B.S., *Special Research Assistant, Engineering Experiment Station*

WILLIAM TELL POPE, *Assistant and Mechanician, Shop Laboratories*

**1. Steam and Air Machinery.**—The construction, operation, and care of boilers, engines, and air compressors; elementary thermodynamics; steam engine performance; transmission of compressed air and its applications. (For students in chemical, civil, and mining engineering.) I; (3). Assistant Professor KIEFER, Mr. HARPER, Mr. HAY

*Prerequisite:* Junior standing.

**2. Steam Engineering.**—Engines, boilers, pumps, condensers, and other steam machinery. II; (3). Assistant Professor KIEFER, Mr. WILSON

*Prerequisite:* Physics 1a-1b, 3a-3b.

**3. Steam Engineering.**—The theory of the steam engine, steam turbine, and other steam machinery. (For students in mechanical engineering.) *I*; (3).

Assistant Professor KIEFER, Mr. WILSON, Mr. FIKRET

*Prerequisite:* Junior standing.

**11. Thermodynamics and Heat Engines.**—(For students in electrical engineering). *I*; (3).

Professor GOODENOUGH, Mr. FIKRET

*Prerequisite:* Mechanical Engineering 1 or 2.

**12. Thermodynamics.**—The transformation of heat into work; the second law and its connection with irreversible processes; the properties of heat media; the perfect gases; saturated and superheated vapors; the flow of fluids. *II*; (5).

Professor GOODENOUGH, Mr. FIKRET

*Prerequisite:* Mathematics 9a; Theoretical and Applied Mechanics 21.

**15. Gas Power Engineering.**—Internal combustion engines; liquid and gaseous fuels and their combustion; gas producers. *I*; (3).

Professor GOODENOUGH

*Prerequisite:* Mechanical Engineering 12.

**23. Mechanical Equipment of Buildings.**—Theory and practise of designing simple systems for the mechanical equipment of buildings, including heating and ventilation, refrigeration, fire protection, vacuum cleaning, elevators, lighting, and small power plants. Lectures; laboratory. *I*; (5).

Professor WILLARD, Assistant Professor WATERFALL

*Prerequisite:* Senior standing.

**25. Heating and Ventilation for Architects.**—The theory and the application of the principles of heating and ventilation to modern practise. Direct and indirect steam and hot water heating; furnace heating; ventilation and air analysis; air conditioning; temperature and humidity control. *I*; (2).

Professor WILLARD, Assistant Professor WATERFALL

*Prerequisite:* Senior standing.

**26. Heating and Ventilation.**—The theory and the application of the principles of heating and ventilation to modern practise. Steam boilers and water heaters of steel and cast iron for heating service; heat losses from buildings; direct and indirect steam and hot water heating, using gravity systems; furnace heating; fan blast or mechanical indirect systems; exhaust steam heating; district heating by steam and water; ventilation and air analysis; air conditioning; temperature and humidity control. *II*; (3).

Professor WILLARD, Assistant Professor WATERFALL

*Prerequisite:* Mechanical Engineering 65.

**30. Mechanics of Machinery.**—Mechanisms and mechanical movements; cams, gears, valve gears, and quick-return motions; graphical constructions for displacement, velocity, and acceleration; kinetics of the steam engine mechanism and similar mechanisms; balancing; critical speeds; force and mass reduction. *II*; (5).

Mr. HARPER, Mr. HAY

*Prerequisite:* Theoretical and Applied Mechanics 21.

**32. Power Transmission.**—Water, air, gas, and steam as power transmitters; the storage of power. *II*; (3).

Professor GOODENOUGH, Professor LEUTWILER, Mr. FIKRET

*Prerequisite:* Mechanical Engineering 12 and 43.

**37. Principles of Management.**—The underlying principles of organization and of management; application of science to industrial problems; selection of and compensation of labor; modern production methods. *I*; (3).

Director BENEDICT

*Prerequisite:* Mechanical Engineering 81, 82, and senior standing.

**43. Engineering Design.**—Theory of machine design, with application; investigation of actual machines similar to the one to be designed; design of machinery subjected to heavy and variable stresses; punches, shears, presses, riveters, and cranes. *I*; (5).

Professor LEUTWILER, Mr. HARPER, Mr. HAY

*Prerequisite:* Theoretical and Applied Mechanics 29; Mechanical Engineering 30.

**44. Engineering Design.**—Design and commercial application of special tools, fixtures, jigs, dies, and gauges used in modern high production manufacturing. *II*; (2).

Professor LEUTWILER

*Prerequisite:* Mechanical Engineering 37 and 43.

**52. Power Plant Design.**—Study and design of some form of steam power plant. *II*; (3).

Professor LEUTWILER, Assistant Professor WATERFALL, Mr. HARPER, Mr. HAY

*Prerequisite:* Mechanical Engineering 43 and 65.

**61. Power Measurement.**—The testing and calibration of instruments and apparatus; use of the indicator, calculation of horse-power and steam consumption; reading of indicator diagrams; valve setting. (For students in electrical engineering.) *I*; (2)

Assistant Professor WATERFALL, Mr. WILSON, Mr. FIKRET

*Prerequisite:* Mechanical Engineering 1 or 2.

**62. Power Measurement and Steam Engines.**—Laboratory work, substantially the same as that given in Mechanical Engineering 61, supplemented by lectures on steam machinery. *II*; (3).

Mr. WILSON

*Prerequisite:* Junior standing.

**64. Power Measurement.**—Apparatus for engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters; methods of calibrating and using such apparatus; tests for horse-power of steam engines; pumps; and gas engines. Reports. *II*; (3).

Professor WILLARD, Assistant Professor KIEFER, Assistant Professor WATERFALL, Mr. WILSON, Mr. FIKRET.

*Prerequisite:* Mechanical Engineering 2; registration in Mechanical Engineering 12 or Chemistry 31.

**65. Power Laboratory.**—Experiments on engines, turbines, gas engines, pumps, boilers, injectors, air compressors, hoisting appliances, heating apparatus, and refrigerating machines. *I*; (3).

Professor WILLARD, Assistant Professor KRATZ, Assistant Professor WATERFALL, Assistant Professor KIEFER, Mr. WILSON, Mr. FIKRET.

*Prerequisite:* Mechanical Engineering 12 and 64.

**66. Power Laboratory.**—Special research work in the mechanical engineering laboratory. *II*; (2).

Professor WILLARD, Assistant Professor KIEFER, Mr. WILSON

*Prerequisite:* Mechanical Engineering 65; senior standing.

**71. Forge Work for Agricultural Students.**—Forging and welding; tempering tools; pointing and hardening cultivator shovels, plowshares. *Six hours a week, either half of I or II*; (1). *Time to be arranged.*

Mr. LANHAM, Mr. REBMAN

**73. Woodwork for Agricultural Students.**—Carpentry for the farmer; use of tools; layout and construction of building joints; repairs to buildings and equipment. *Six hours a week, either half of I or II*; (1). *Time to be arranged.*

Mr. HALL, Mr. WRIGHT

**75. Forge Practise and Management.**—(9 weeks).—Modern forge shop practises, and management of metal forging plants. Planning, routing, dispatching, and inspection of work; time studies; production of standard parts; heat treatment of steel; case carbonizing; machine and hand forging; studies of forge shop practises; methods and equipment. *I* or *II*.  
Mr. BENEDICT, Mr. LANHAM, Mr. REBMAN

**77. Foundry Practise and Management.**—(18 weeks).—Modern foundry practise and management. Planning, routing, dispatching, and inspection of work; time studies; production of standard castings; brass furnace and cupola practise; machine, bench, and floor molding; core making; cleaning castings; tool and stock room methods; studies of foundry practises, methods, and equipment. *I* or *II*; (3).  
Mr. BENEDICT, Mr. KENNEDY, Mr. GRENNAN

**78. Principles of Foundry Operation.**—Principles underlying foundry operation. Foundry organization and management including planning, routing, dispatching, production, inspection, testing, cost accounting, etc.; foundry methods, processes, machines; tools, metals, and materials in modern commercial foundries. *I* or *II*; (3).  
Mr. BENEDICT, Mr. RADEBAUGH, Mr. KENNEDY, Mr. GRENNAN

*Prerequisite:* Two units of machine shop and foundry practise in accredited schools or colleges.

**79. Pattern Shop Practise and Management.**—(9 weeks).—Training in modern pattern shop practises. Planning, routing, dispatching, and inspection of work; time and cost keeping; time studies; work schedules; layout and construction of wood and metal patterns for both machine and hand molding; care and use of tools; machine operation; studies of pattern shop practises, methods, and equipment. *I* or *II*; (2).  
Mr. BENEDICT, Mr. HALL, Mr. WRIGHT

**81. Machine Shop Practise and Management.**—(18 weeks).—Modern machine shop practise and management of metal working plants. Manufacturing methods; shop management; planning; production; routing; dispatching; inspection; time studies; shop accounting; machine operation; assembling; testing; studies of machine shop practise, methods, and equipment. *I*; (3).  
Mr. BENEDICT, Mr. RENNIE, Mr. SCHRIEKER

*Prerequisite:* Mechanical engineering 75, 77, and 79.

**82. Machine Shop Practise and Management.**—(Continuation of Mechanical Engineering 81). *II*; (2)  
Mr. BENEDICT, Mr. RENNIE, Mr. SCHRIEKER

*Prerequisite:* Mechanical Engineering 81.

**83. Principles of Factory Operation.**—(18 weeks).—Principles underlying factory operation. Practical training in organization and management of a machine shop manufacturing a line of standardized products by modern production methods. Planning; routing; dispatching; inspection; maintenance; testing; cost accounting, etc. Design methods, processes, machines, tools, and materials. *I* or *II*; (3).  
Mr. BENEDICT, Mr. RADEBAUGH, Mr. RENNIE, Mr. SCHRIEKER

*Prerequisite:* Two units of machine shop and foundry practise in accredited schools or colleges.

**98. Thesis.**—Investigation of special subject and preparation of thesis embodying a review of the literature of the subject, the results of investigation, and a discussion of those results. *II*; (3). *Time to be arranged.*

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

## Courses for Graduates

Entrance or graduate work in mechanical engineering presupposes the full undergraduate course in that subject.

**107. Thermodynamics.**—Application of thermodynamics to the solution of physical and engineering problems. *Twice a week; I; (1 unit). Time to be arranged.*

Professor GOODENOUGH

**109. Machine Design.**—Rational design; the application of mechanics of materials. Individual problems. *Twice a week; I or II; (1 unit). Time to be arranged.*

Professor LEUTWILER

**112. Laboratory Investigations.**—Combustion of fuel; boiler economy; steam engines and turbines; gas engines and producers; properties of explosive mixtures; mechanical refrigeration. Original work. *Three times a week; I, II; (1½ units). Time to be arranged.*

Professor WILLARD

## MECHANICS, THEORETICAL AND APPLIED

ARTHUR NEWELL TALBOT, D.Sc., D.Eng., *Professor, Municipal and Sanitary Engineering; in charge of Theoretical and Applied Mechanics*

HERBERT FISHER MOORE, M.M.E., *Research Professor, Engineering Materials, Engineering Experiment Station*

MELVIN LORENIUS ENGER, M.S., C.E., *Professor, Mechanics and Hydraulics*

FRED B SEELY, M.S., *Associate Professor*

VIRGIL R FLEMING, B.S., *Assistant Professor, Applied Mechanics*

HARRISON FREDERICK GONNERMAN, M.S., *Research Assistant Professor, Engineering Experiment Station*

GEORGE PAUL BOOMSLITER, M.S., *Associate*

NEWTON EDWARD ENSIGN, A.B., B.S., *Associate*

WILLIAM JAMES PUTNAM, M.S., *Associate*

HAROLD MALCOLM WESTERGAARD, Ph.D., *Associate*

FRANK ERWIN RICHART, M.S., *Research Associate, Engineering Experiment Station*

JASPER OWEN DRAFFIN, M.S., *Instructor*

**10. Hydraulics.**—Pressure and flow of water; utilization as motive power; observation and measurement of pressure, velocity and flow; power and efficiency; determination of experimental coefficients. Laboratory weekly. *II; (3).*

Professor ENGER, Associate Professor SEELY, Assistant Professor FLEMING, Mr. PUTNAM  
*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 21.

**14. Elements of Mechanics.**—Kinematics, kinetics, and statics. (For architects and others who have not taken the calculus). *II; (4).*

*Prerequisite:* Mathematics 2, 4.

**15-16. Strength of Materials.**—Graphical methods; elastic curve of beams; centroids and moments of inertia of areas; reinforced concrete beams and columns; tests of engineering materials. (For students in architecture and others without the prerequisites for course 25 or 29.) Laboratory every other week. *I, II; (3).*

*Prerequisite:* Theoretical and Applied Mechanics 14.

**20. Analytical Mechanics.**—The mechanics of engineering rather than that of astronomy and physics. Equilibrium, centroids and center of gravity; friction; kinematics; problems; statement of conditions and use of data. *II; (3).*

Professor ENGER, Associate Professor SEELY, Mr. BOOMSLITER, Mr. ENSIGN, Dr. WESTERGAARD.

*Prerequisite:* Mathematics 7; registration in Mathematics 9. (Mathematics 8a and

registration in Mathematics 8b for students in chemical engineering and industrial administration.)

**21. Analytical Mechanics.**—Continuation of course 20. Kinematics and kinetics. *I*; (2).

Associate Professor SEELY, Mr. BOOMSLITER, Mr. ENSIGN, Dr. WESTERGAARD, Mr. DRAFFIN.

*Prerequisite:* Mathematics 8b or 9; Theoretical and Applied Mechanics 20.

**25. Resistance of Materials.**—A briefer course than Theoretical and Applied Mechanics 29. (For students in architectural, ceramic, chemical, electrical, and mining engineering.) *I*; (4).

Professor ENGER, Associate Professor SEELY, Assistant Professor FLEMING, Mr. ENSIGN, Mr. PUTNAM, Dr. WESTERGAARD.

*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 20.

**26. Analytical Mechanics and Hydraulics.**—Kinematics, kinetics, and hydraulics; problems; hydraulic laboratory. (For students in architectural, electrical, and mining engineering.) Laboratory weekly during the last half of the semester. *II*; (4).

Associate Professor SEELY, Assistant Professor FLEMING, Mr. PUTNAM, Dr. WESTERGAARD.

*Prerequisite:* Theoretical and Applied Mechanics 25.

**29. Resistance of Materials.**—Mechanics of materials; properties and requirements for materials of construction; effect of methods of manufacture on quality; specifications and standard tests. (For students in civil, mechanical, and municipal and sanitary engineering.) Recitations; lectures; assigned reading. Laboratory weekly. *I*; (5).

Professor TALBOT, Associate Professor SEELY, Assistant Professor FLEMING, Mr. ENSIGN, Mr. PUTNAM, Dr. WESTERGAARD.

*Prerequisite:* Mathematics 9; registration in Theoretical and Applied Mechanics 21.

**36. Analytical Mechanics.**—The portion of course 26 devoted to analytical mechanics. (Open only to railway electrical engineering students.) *II*; (2). Mr. PUTNAM

*Prerequisite:* Theoretical and Applied Mechanics 25.

#### Courses for Advanced Undergraduates and Graduates

**1. Analytical Mechanics.**—(Especially for graduates and advanced undergraduates in Arts and Sciences). Lamb's *Statics*. *I*; (3). Mr. ENSIGN

*Prerequisite:* Mathematics 8 or 9.

**2. Analytical Mechanics.**—(A continuation of Theoretical and Applied Mechanics 2). Lamb's *Dynamics*. *II*; (3). Mr. ENSIGN

*Prerequisite:* Theoretical and Applied Mechanics 1.

**41. Advanced Mechanics of Materials.**—Special problems met in engineering. Thick cylinders, guns, curved beams, hooks, chain links, rings, unsymmetrical bending, flat plates, bulk heads; elastic strength of material as affected by heat treatment and over-strain; stresses due to impact loads; resistance of materials to repeated loading; collapsing pressure of thin-walled vessels. Exact versus approximate analyses. Methods of extending approximate analyses. General methods of attack. The application of mechanics to special machine parts and structures. *I*; (3). Associate Professor SEELY

*Prerequisite:* Theoretical and Applied Mechanics 20 and 25 or 29.

**42. The Properties of Engineering Materials; Specifications and Inspection.**—The properties and uses of materials of construction, iron, steel, non-ferrous metals, wood, concrete, brick, and stone. Standard specifications for materials; methods of inspection. *II*; (2). Associate Professor SEELY

*Prerequisite:* Theoretical and Applied Mechanics 20 and 25 or 29.

**44. Laboratory Work in Testing Materials.**—Study of testing machines and strain measuring apparatus; practise in making standard tests in tension, compression, and flexure. Torsion tests, impact tests, hardness tests, repeated stress tests, and tests of special forms. Systematic tabulation and reduction of test data. Laboratory and computing room periods. *II*; (3).  
Professor MOORE

*Prerequisite:* Theoretical and Applied Mechanics 20 and 25 or 29.

**45. Advanced Technical Mechanics.**—A survey of graphical and algebraic methods and principles used in technical elastostatics. Selected topics of graphical statics. General theories of deformations of structures, in particular of statically indeterminate structures: principles of virtual work and of least action; the method of the substitute structure; the method of the principal displacements, including the slope-deflection method; Ritz's method; elastic stability and buckling. Applications to a variety of structures in different fields of engineering. *I*; (3).  
Dr. WESTERGAARD

*Prerequisite:* Theoretical and Applied Mechanics 20 and 25 or 29, or equivalent work in physics and mathematics.

### Courses for Graduates

Entrance on graduate work in theoretical and applied mechanics presupposes a full undergraduate course in that subject.

**101. Analytical Mechanics.**—The historical development of methods of analysis; advanced problems in statics and dynamics; critical and comparative study of texts. *Twice a week; II; (1 unit)*.  
Professor MOORE

**102. Resistance of Materials.**—Properties of materials used in engineering construction and methods of determining these properties; mechanics of materials; effect of form of member in a structure or machine; the method of application of forces; comparative study of texts. *Twice a week; II; (1 unit)*.  
Professor MOORE

**103. Hydraulics and Hydraulic Engineering.**—The laws of hydraulics and their application to engineering problems; hydraulic power and its development; design and investigation. *Twice a week; II; (½ to 1 unit)*.  
Professor ENGER

**104. Experimental Work in the Laboratory of Applied Mechanics.**—(a) Laboratory investigation in the materials-testing laboratory; (b) experimental work in hydraulic laboratory. *Twice a week; I, II; (½ to 2 units)*.  
Professor TALBOT, Professor MOORE, Professor ENGER

**105.—Experimental and Analytical Work in Reinforced Concrete.**—Research; interpretation of experimental results and their application to the design of structures; principles of construction. Laboratory experimentation. *Twice a week; I, II; 1 to 2 units*.  
Professor TALBOT

### Summer Session Courses

**S20. Analytical Mechanics.**—(3).  
*Prerequisite:* Mathematics 7; registration in Mathematics 9.  
Mr. BOOMSLITER

**S21. Analytical Mechanics.**—(3).  
*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 20.  
Associate Professor SEELY

**S25. Resistance of Materials.**—(4).  
*Prerequisite:* Mathematics 9; Theoretical and Applied Mechanics 20.  
Mr. BOOMSLITER, Mr. PUTNAM

**S34. Mechanics and Hydraulics.**—(3).  
*Prerequisite:* Theoretical and Applied Mechanics 32.  
Associate Professor SEELY, Mr. PUTNAM

**S20b. Analytical Mechanics.**—(2).  
*Prerequisite:* Theoretical and Applied Mechanics 20a.  
Associate Professor SEELY



## MEDICINE

(See under COLLEGE OF MEDICINE.)

## METEOROLOGY

(See under GEOLOGY.)

## MINERALOGY

(See under GEOLOGY.)

## MILITARY SCIENCE

GEORGE FREDERICK NEY DAILEY, Captain, Infantry, *Professor and Commandant*  
 THOMAS JAMES CAMP, Major, Infantry, *Assistant Professor and Executive Officer*  
 ROBERT WALKER GROW, Captain, Cavalry, *Assistant Professor*  
 RUSSELL DUNN BARNES, First Lieutenant, Infantry, *Assistant Professor*  
 CHAUNCEY AUBREY BENNETT, Captain, Field Artillery, *Assistant Professor*

### Freshman Course for all Arms

**1a-2a. Practical.**—Application of the subjects given under 1b-2b to an infantry organization. *Two hours a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

**1b-2b. Theoretical.**—Organization, military courtesy and discipline, infantry drill regulations, care and handling of arms and equipment, theory of target practise, personal hygiene, first aid, sanitation, guard duty, patrols, outposts, morale, physical training. *One hour a week. I, II; (½).*

Professor DAILEY

### Sophomore Infantry

**3a-4a. Practical.**—Application of the subjects given in 3b-4b. *Two hours a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

**3b-4b. Theoretical.**—Advanced work in subjects of 1b-2b, liaison for all arms, topography and map reading, signalling, field engineering, bayonet, hand grenades, order and messages. *One hour a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

### Junior Infantry

**5a-6a. Practical.**—Duties of officers and noncommissioned officers including tactical walks, map-making, coaching rifle practise, practise firing with automatic rifles, and rifle grenades, instructing in resuscitation of the drowned. *Three hours a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

**5b-6b. Theoretical.**—Camp sanitation and care of troops in the field, tactics, liaison for all arms, topography, field engineering, common and military law, military policy of the United States, conduct and coaching of range practise, interior guard duty, military courtesy and discipline. *Two hours a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

### Senior Infantry

**7a-8a. Practical.**—Duties of officers and noncommissioned officers, including advanced work in subjects of 5a-6a and the solution of musketry problems. Pistol firing. *Three hours a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

**7b-8b. Theoretical.**—Field engineering, company administration, military history and economics of the United States, study of the world war, courts-martial, rules of land warfare, care and diseases of horses, tactics and tactical problems, theory of pistol firing, personal hygiene, first aid and sanitation, guard duty. *Two hours a week. I, II; (½).*

Assistant Professor CAMP, Assistant Professor BARNES

### Sophomore Field Artillery

**13a-14a. Practical.**—Field artillery drill regulations, telephone, radio, use of fire-control instruments, dismounting, care and cleaning of materiel, tractor driving, equitation, and mounted drill. *Two hours a week. I, II; (½).*

Assistant Professor BENNET

**13b-14b. Theoretical.**—Ordnance, artillery materiel, tractors, field artillery drill and service regulations, hippology. *One hour a week, I, II; (½).*

Assistant Professor BENNETT

### Junior Field Artillery

**15a-16a. Practical.**—Field artillery drill regulations, communication, equitation, care and training of the horse, mounted drill, topography, conduct and observation of fire. Duties of officers and noncommissioned officers. *Two hours a week. I, II; (½).*

Assistant Professor BENNETT

**15b-16b. Theoretical.**—Gunnery and conduct of fire, reconnaissance, topography and orientation, liaison and communication, hippology, field artillery drill and service regulations. *Three hours a week. I, II; (½).*

Assistant Professor BENNETT

### Senior Field Artillery

**17a-18a. Practical.**—Conduct and observation of fire using terrain boards, sub-caliber and smoke bombs, reconnaissance and tactics, equitation and mounted drill. Duties of officers and noncommissioned officers. *Three hours a week. I, II; (½).*

Assistant Professor BENNETT

**17b-18b.—Theoretical.**—Advanced gunnery, map firing, corrections of the moment, barrages, etc., tactics and reconnaissance, field engineering and fortifications, military policy of the United States, military law, camp sanitation, field artillery drill regulations, battery administration. *Two hours a week, I, II; (½).*

Assistant Professor BENNETT

### Sophomore Cavalry

**23a-24a. Practical.**—Mounted drill, horsemanship, care of animals and saddlery, cavalry tactics, target practise, guard duty, physical training, signalling. *Two hours a week. I, II; (½).*

Assistant Professor GROW

**23b-24b. Theoretical.**—Organization, discipline and courtesy, cavalry service regulations, small-arms firing, hygiene, first aid, sanitation, morale, liaison, topography. *One hour a week. I, II; (½).*

Assistant Professor GROW

### Junior Cavalry

**25a-26a. Practical.**—Mounted drill and combat principles, selection and care of horses, pistol practise, packing, map-making, duties of officers and noncommissioned officers. *Three hours a week. I, II; (½).*

Assistant Professor GROW

**25b-26b. Theoretical.**—Cavalry drill regulations and combat principles, minor tactics, messing of troops, topography, field engineering, military and common law. *Two hours a week. I, II; (½).*

Assistant Professor GROW

## Senior Cavalry.

**27a-28a. Practical.**—Minor tactics; conformation, diseases, examination for soundness and shoeing of animals; making maps while mounted, pistol firing mounted, packing, duties of officers and noncommissioned officers. *Three hours a week. I, II; (½).*

Assistant Professor GROW

**27b-28b. Theoretical.**—Strategic patrols, hippology, field engineering, troop administration, military history, courts-martial. *Two hours a week. I, II; (½).*

Assistant Professor GROW

## Sophomore Engineers

**33a-34a. Practical.**—Organization, military courtesy and discipline, drill, care and handling of arms and equipment, small-arms firing, personal hygiene, first aid, sanitation, interior guard duty, minor tactics and practical work in military sketching. *Two hours a week. I, II; (½).*

Master Engineer Senior Grade WHYBARK

**33b-34b. Theoretical.**—Topography, organization and duties of engineer troops, explosives, drill regulations, care and handling of arms and equipment, small-arms firing, minor tactics, morale. *One hour a week. I, II; (½).*

Master Engineer Senior Grade WHYBARK

## Junior Engineers

**35a-36a. Practical.**—Minor tactics, topography, demolitions, field engineering, practical work as instructors. *Two hours a week. I, II; (½).*

Master Engineer Senior Grade WHYBARK

**35b-36b. Theoretical.**—Military roads and bridges, field fortifications, hippology, pack animals and equipment, entrenching tools, care and handling of troops in the field, minor tactics, liaison for all arms, topography, law, military policy. *Three hours a week. I, II; (½).*

Master Engineer Senior Grade WHYBARK

## Senior Engineers

**37a-38a. Practical.**—Pontoon bridges, military bridges, field fortifications, minor tactics, topography, practical work as instructors. *Two hours a week. I, II; (½).*

Master Engineer Senior Grade WHYBARK

**37b-38b. Theoretical.**—Studies in engineer problems, field engineering, company administration, military policy of the United States, military law, hippology. *Three hours a week. I, II; (½).*

Master Engineer Senior Grade WHYBARK

## Sophomore Signal Corps

**43a-44a. Practical.**—Organization, military courtesy and discipline, drill, care and handling of arms and equipment, small-arms firing, personal hygiene, first aid, sanitation, interior guard duty, minor tactics. *Two hours a week. I, II; (½).*

Professor DAILEY, Master Signal Electrician SILGER

**43b-44b. Theoretical.**—Radio telegraphy, transmission and reception of messages by radio, organization, drill regulations, care and handling of arms and equipment, small-arms firing, minor tactics, morale. *One hour a week. I, II; (½).*

Professor DAILEY, Master Signal Electrician SILGER

## Junior Signal Corps

**45a-46a. Practical.**—Minor tactics, topography, practical work as instructors. *Two hours a week. I, II; (½).*

Professor DAILEY, Master Signal Electrician SILGER

**45b-45b.** Theoretical.—Elementary telephone, telegraph and radio engineering, minor tactics, liaison for all arms, topography, field engineering, law, military policy. *Three hours a week. I, II; ( $\frac{1}{2}$ ).* Professor DAILEY, Master Signal Electrician SILGER

### Senior Signal Corps

**47a-48a.** Practical.—Minor tactics, topography, practical work as instructors. *Two hours a week. I, II; ( $\frac{1}{2}$ ).* Professor DAILEY, Master Signal Electrician SILGER

**47b-48b.** Theoretical.—Advanced telephone, telegraph, and radio engineering, field engineering, company administration, military policy of the United States, military law, hippology. *Three hours a week. I, II; ( $\frac{1}{2}$ ).* Professor DAILEY, Master Signal Electrician SILGER

## MINING ENGINEERING

HARRY HARKNESS STOEK, B.S., E.M., *Professor, Head of the Department*

JOHN BURNS READ, B.S., E.M., *Assistant Professor*

JAMES RUSSELL FLEMING, E.M., *Research Associate, Engineering Experiment Station*

RAY WALTER ARMS, E.M., *Instructor*

**1. Earth and Rock Excavation.**—Explosives; blasting; boring; tunneling; shaft-sinking; coal-cutting; timbering and prospecting. *I; (3).*

Professor STOEK, Professor READ

*Prerequisite:* Chemistry 1a or 1b.

**2. Mining Principles.**—Terminology; explosives and blasting; well and rock drilling; coal-cutting; shaft-sinking and tunneling; methods of working and timbering flat and inclined deposits. For students in courses other than mining. Of special interest to those taking advanced military work. *I or II; (3).*

Professor READ

*Prerequisite:* Chemistry 1a or 1b; junior standing.

**4. Mining Methods.**—Mining and timbering of bedded, vein, and placer deposits. *II; (3).*

Professor STOEK

*Prerequisite:* Mining 1.

**5. Mine Ventilation.**—Mine gases; safety lamps; mine ventilation; lighting and signaling; explosions and mine fires; rescue work and first aid. Laboratory work. *I; (3).*

Mr. ARMS

*Prerequisite:* Chemistry 1a or 1b, 4; Physics 1a-1b, 3a-3b; Mining 4.

**6. Mechanical Engineering of Mines.**—Hoisting; ropes, cages, hoisting engines, and other appliances. Haulage: the different systems used underground and on the surface; the methods of loading and unloading; mine stables; transportation of workmen. Drainage of mines: mine dams, mine pumps. *II; (3).*

Mr. ARMS

*Prerequisite:* Mechanical Engineering 1, or equivalent.

**8. Mine and Metallurgical Law, Administration, and Accounts.**—Laws governing location, ownership, and policing of mines. Trade agreements, relations between employers and employees. Sociology. Accounts and cost sheets. *II; (2).*

Professor STOEK

*Prerequisite:* Mining 3 or 4, or Geology 2.

**9. Preparation of Coal and Ores.**—History, principles, processes, machines; applications to dry coal preparation and coal washing. Breaking, sizing, and concentrating ores. Laboratory practise in coal washing. *I; (3).*

Professor READ

*Prerequisite:* Chemistry 5; Physics 3a-3b.

**10. Electrical Engineering of Mines.**—Elementary principles of electrical machinery; direct-current motors and generators, storage batteries; power plant equipment; alternating current motors and generators; mining applications of electrical machinery. *II*; (3).

*Prerequisite:* Physics 1a-1b.

**13. Utilization of Fuels.**—The manufacture, handling, and utilization of wood, charcoal, peat, lignite, bituminous coal, anthracite, coke, petroleum, natural and artificial gas, and refractories in mining and metallurgical practise. *II*; (2). Professor STOEK

*Prerequisite:* Junior standing.

**15. Principles of Mine Ventilation.**—Mine ventilation, signaling, and lighting. *I*; (1).

Mr. ARMS

*Prerequisite:* Physics 3a-3b; Mining 2 or 3 or 4.

**17. Problems.**—Problems, library research, and reports on mining and metallurgical subjects. *I*; (1). Professor READ

*Prerequisite:* Senior standing in mining engineering.

**19. Ore and Coal Preparation.**—Principles and machines used in breaking, pulverizing, sizing, classifying, and concentrating ores and mineral products. Wet and dry concentration. Practical limits of ore dressing. Principles applied in coal preparation. Laboratory practise in ore concentration. *I*; (3). Professor READ

*Prerequisite:* Chemistry 5; Geology 20 or equivalent.

**21. Mine Examination and Valuation.**—The methods of examining, valuing, and reporting on mines, mining and metallurgical plants. Estimation and prospecting of mineral deposits. *I*; (2). Professor STOEK

*Prerequisite:* Mining 1 or 2 or 4, or registration in Mining 2; Geology 20 and 43 or equivalent.

**41. Principles of Coal Plant Design.**—Design of mine structures of wood, steel, and masonry, with drafting practise in design of coal tipples and general surface plant. *I*; (3).

Mr. ARMS

*Prerequisite:* Civil Engineering 58, or equivalent.

**42. Coal Plant Design.**—General layout; design; estimates for construction and specifications for coal mining plant. *II*; (2). Mr. ARMS

*Prerequisite:* Mining 41.

**43. Principles of Ore Plant Design.**—Design of mine structures of wood, steel, and masonry, with drafting practise in design of rock houses, ore bins, and crushing plants. *I*; (3). Mr. ARMS

*Prerequisite:* Civil Engineering 58, or equivalent.

**44. Ore Plant Design.**—General layout; design; estimates for construction and specifications for ore mining plants. *II*; (2). Mr. ARMS

*Prerequisite:* Mining 43.

**45. Principles of Mill and Smelter Design.**—Flow sheets and structures of wood, steel, and masonry; drafting practise on individual designs. *I*; (3). Mr. ARMS

*Prerequisite:* Civil Engineering 58, or equivalent.

**46. Mill and Smelter Design.**—Flow sheets; design; estimates for construction, and specifications for concentrating plant or smelter. *II*; (2). Mr. ARMS

*Prerequisite:* Mining 45.

**61. Elementary Mine Surveying.**—The theory, use and adjustment of the compass, transit and level; the computation of areas and volumes; bore hole surveys; map construction; corners and boundaries; elements of mine surveying. Problems with tape, compass, transit and level. *I*; (3). Mr. ARMS

*Prerequisite:* General Engineering Drawing, 1, 2. Mathematics 4.

**62. Mine Surveying.**—The application of general surveying methods to mine work; description and use of instruments employed underground and in connecting surface and underground surveys; the platting and use of mine maps; mineral land surveying; the theory and use of solar attachments; determination of the meridian. A surveying trip is made to neighboring mines, of which the estimated cost is \$10.00. *II*; (3). Mr. ARMS

*Prerequisite:* Civil Engineering 35 or Mining 61.

**64. Coal Mining Laboratory.**—Different coals; their availability for crushing, dry preparation, washing, and briquetting. Complete commercial tests, using small commercial machines wherever possible; design of flow sheets; analysis of products. Estimation of probable costs. *II*; (3). Professor READ

**66. Ore Concentration Laboratory.**—Complete commercial wet and dry concentration tests on raw ores of lead, zinc, iron, etc. Amalgamation and cyanidation of a gold ore. Sampling, preparation, and analysis or assay of the products recovered. *II*; (3). Professor READ

*Prerequisite:* Mining 9 or 19.

**68. Mine Topography.**—Stadia; application of topographic and railroad surveying to mining conditions. *II*; (1). Mr. ARMS

*Prerequisite:* Civil Engineering 35 or Mining 61.

**90. Mining and Metallurgical Reports.**—Review of mining and metallurgical literature; reports; technical writing. *II*; (1). Professor READ

## MUNICIPAL AND SANITARY ENGINEERING

ARTHUR NEWELL TALBOT, D.Sc., D.Eng., *Professor*

MELVIN LORENIUS ENGER, M.S., C.E., *Professor, Mechanics and Hydraulics*

HAROLD EATON BABBITT, M.S., *Assistant Professor*

**2. Water Supply Engineering.**—The principal features of water supply engineering; source of supply; hydraulics of wells; stream flow; impounding and storage reservoirs; conduits and pipe lines; pumps and pumping machinery; stand-pipes and elevated tanks; the distribution system; tests and standards of purity of potable water. Designing weekly. *I*; (4). Professor ENGER, Assistant Professor BABBITT

*Prerequisite:* Theoretical and Applied Mechanics 29, 10; Chemistry 1; Mechanical Engineering 1 or 2.

**3. Sewerage.**—Sewerage systems; sanitary necessity of sewerage; separate and combined water carriage systems; surveys and general plans; hydraulics; house sewage and its removal; rainfall and storm-water flow; size and capacity of sewers; sewer appurtenances; sewage disposal; estimates and specifications. Designing weekly. *II*; (3). Assistant Professor BABBITT

*Prerequisite:* Theoretical and Applied Mechanics 29, 10; Chemistry 1; Municipal and Sanitary Engineering 2.

**6a-6b. Water Purification, Sewage Disposal, and General Sanitation.**—Water purification; design of water purification works; standards and tests of purity of potable water.

Sewage disposal; design of sewage treatment works; garbage collection and disposal; sanitary restrictions and regulations and general sanitation. The sanitation of army camps, hospitals, and industrial communities. Lectures; seminar work; drafting. *I*; (3); *II*; (2).

Professor TALBOT, Assistant Professor BABBITT

*Prerequisite:* Municipal and Sanitary Engineering 2, 3; Chemistry 1, 3, 10b.

**9. Hydraulic Design and Construction.**—Reservoirs, dams, conduits, and waterways; hydraulic engineering problems. *II*; (2).

Professor ENGER

**98. Thesis.**—Investigation or design of an engineering problem. *II*; (2).

Professor TALBOT

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

### Courses for Graduates

Entrance on graduate work in municipal and sanitary engineering presupposes a full undergraduate course in that subject.

**102. Water Supply Engineering.**—Water supply; general waterworks construction; pumps and pumping; reservoirs and elevated tanks; waterworks operation; valuation of plants. *One to three times a week; I or II; (1 unit).*

Professor ENGER

**103. Sewerage.**—Design and construction of sewerage systems; hydraulics of sewers; run-off. *Once or twice a week; II; (1 unit).*

Professor TALBOT

**106. Water Purification, Sewage Disposal, and General Sanitation.**—Water purification plants and sewage disposal works; comparison of results and cost of construction and operation; experimental work on water and sewage treatment; garbage; general sanitation. *Once a week; II; (½ unit or more).*

Professor TALBOT

**98. Thesis.**—Individual investigation of a special mining subject; preparation of thesis giving review of the literature, the results of experimental work, and a general discussion of the subject. *II*; (3).

(Hours arranged when thesis is permitted in accordance with regulations of the College of Engineering.)

**99. Inspection Trip.**—*I*; (no credit).

*Prerequisite:* Senior standing.

### Courses in Metallurgy

See Chemistry 7, Metallurgy (general metallurgy; iron and steel); Chemistry 7a, Metallurgy of the non-ferrous metals (copper, lead, zinc, gold, silver); Chemistry 69, Metallurgical laboratory and assaying, fire assays and special metallurgical experiments, calculation of charges, high temperature measurements; Chemistry 78, Metallography (Constitution and microstructure of metals and alloys, etc.), pages 284-287.

### Courses for Graduates

Entrance on graduate work in mining engineering presupposes a full undergraduate course in that subject.

**100. Seminar.**—*Once a week; I, II; (1 unit).*

Professor STOEK

**101. Advanced Mining Methods.**—Coal and ore fields of the United States; methods and economics of mining; utilization, marketing, storage, and transportation of coal and ores. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor STOEK

**102. Advanced Preparation of Coal and Ores.**—Detailed investigation and discussion of settling ratios; laws of crushing; sorting vs. sizing; specific mill and washing problems. *Twice a week; I, II; (1 unit). Time to be arranged.*

**103. The History of Miners' Organizations.**—The effect of organizations on the development of mining practise. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor STOEK

**104. Mining Reports.**—The law of the apex; classification of coal and ore lands; conservation of mineral resources; mine examination and report. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor STOEK

**105. Welfare Work and Education Among Mine Employees.**—The organization and operation of mining institutes, night classes, welfare, mine rescue and first-aid work. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor STOEK

## MUSIC

JOHN LAWRENCE ERB, F.A.G.O., *Director, University Organist*

GEORGE FOSS SCHWARTZ, A.M., B.Mus., *Assistant Professor, Theory and History of Music*

ALBERT AUSTIN HARDING, *Assistant Professor, Wind Instruments, Director of the Band*

HENRI JACOBUS VAN DEN BERG, *Instructor, Piano*

EDSON WILFRED MORPHY, *Instructor, Violin*

FRANK TATHAM JOHNSON, *Instructor, Voice*

OLGA EDITH LEAMAN, *Instructor, Voice*

ARTHUR BERESFORD, *Instructor, Voice*

MARY DODDS PHILLIPS, *Instructor, Public School Music*

KATHARINE ELIZABETH SEELYE, A.B., *Instructor, Piano and Organ*

VIRGINIA LOUISE MCATEE, A.B., Mus.B., *Instructor, Piano, Voice, and Organ*

ERA BENGE, A.B., Mus.B., *Instructor, Piano*

**1-2. History of Music.**—*I, II; (2).*

Assistant Professor SCHWARTZ

*Prerequisite:* One year of university work.

**3-4. Theory of Music (Harmony).**—*I, II; (2).*

Assistant Professor SCHWARTZ

**5-6. Theory of Music (Harmony).**—Continuation of 3-4. *I, II; (3).*

Assistant Professor SCHWARTZ

*Prerequisite:* Music 3-4.

**7-8. Counterpoint, Canon, and Fugue.**—*I, II; (3).*

Assistant Professor SCHWARTZ

*Prerequisite:* Music 5-6.

**9-10. General Theory and Analysis.**—*I, II; (2).*

Director ERB

*Prerequisite:* Music 7-8.

**11-12. Acoustics.**—*I, II; (1).*

Director ERB

*Prerequisite:* Music 3 to 8 inclusive.

**13-14. Musical Appreciation.**—*I, II; (1).*

Director ERB

**21a-21b. Ear Training, First Year.**—Two hours a week, required of all music students. *I, II; (no credit).*

Miss PHILLIPS

**22a-22b. Ear Training, Second Year.**—Two hours a week, required of students in the curriculum in music in the sophomore year. *I, II; (1).*

Miss PHILLIPS

**23a-23b. Sight Singing, First Year.**—Two hours a week; required of students in the curriculum in music in the sophomore year. *I, II; (no credit).*

Miss PHILLIPS

**24a-24b. Sight Singing, Second Year.**—Two hours a week; required of students in the curriculum in music in the junior year. *I, II; (1).*

Miss PHILLIPS



**25a-25b. Methods of Teaching.**—Elements of theory, eye and ear training, the limitations of the child-voice, selection of material, pedagogical presentations, appreciation work for the high school. (Primarily for students preparing to teach music in the public schools.) *I, II; (4).* Miss PHILLIPS

**27a-27b. Ensemble.**—*I, II; (1).*

**28a-28b. Sight Singing, Elementary.**—One hour a week for beginners. *I, II; (no credit).* Miss PHILLIPS

### Piano

Mr. VAN DEN BERG, Miss SEELYE, Mrs. MCATEE, Miss BENCE

NOTE.—A student enrolled in *piano* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *piano*.

**41a-41b. Introductory Course in Piano, First Year.**—*I, II; (no collegiate credit).*

**41c-41d. Introductory Course in Piano, Second year.**—*I, II; (no collegiate credit).*

**41e-41f. Introductory Course in Piano, Third Year.**—*I, II; (no collegiate credit).*

For all courses Music 42a to 47b, inclusive.—

*Prerequisite:* Music 41a-f or equivalent.

**42a-42b. Piano, First Year.**—*I, II; (4).*

**43a-43b. Piano, Second Year.**—*I, II; (4).*

**44a-44b. Piano, Third Year.**—*I, II; (4).*

**45a-45b. Piano, Fourth Year.**—*I, II; (4).*

**46a-46b, 46c-46d, 46e-46f, 46g-46h. Piano.**—Piano taken as a minor by students majoring in voice, violin or organ. *I, II; (2).*

**47a-47b, 47c-47d, 47e-47f, 47g-47h. Piano.**—For students from other departments of the University. *I, II; (2).*

### Voice

Mr. JOHNSON, Miss LEAMAN, Mr. BERESFORD

NOTE.—A student enrolled in *voice* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *voice*.

**51a-51b. Introductory Course in Voice, First Year.**—*I, II; (no collegiate credit).*

**51c-51d. Introductory Course in Voice, Second Year.**—*I, II; (no collegiate credit).*

**51e-51f. Introductory Course in Voice, Third Year.**—*I, II; (no collegiate credit).*

For all courses Music 52a to 57h, inclusive.—

*Prerequisite:* Music 51a-f or equivalent.

**52a-52b. Voice, First Year.**—*I, II; (4).*

**53a-53b. Voice, Second Year.**—*I, II; (4).*

**54a-54b. Voice, Third Year.**—*I, II; (4).*

**55a-55b. Voice, Fourth Year.**—*I, II; (4).*

**56a-56b, 56c-56d, 56e-56f, 56g-56h. Voice.**—Voice taken as a minor by students majoring in piano, violin, or organ. *I, II; (2).*

**57a-57b, 57c-57d, 57e-57f, 57g-57h. Voice.**—For students from other departments of the University. *I, II; (2).*

## Violin

Mr. MORPHY

NOTE.—A student enrolled in *violin* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *violin*.

61a-61b. Introductory Course in Violin, First Year.—*I, II; (no collegiate credit).*

61c-61d. Introductory Course in Violin, Second Year.—*I, II; (no collegiate credit).*

61e-61f. Introductory Course in Violin, Third Year.—*I, II; (no collegiate credit).*

For all courses, music 62a to 67h, inclusive.—

*Prerequisite:* Music 61a-f or equivalent.

62a-62b. Violin, First Year.—*I, II; (4).*

63a-63b. Violin, Second Year.—*I, II; (4).*

64a-64b. Violin, Third Year.—*I, II; (4).*

65a-65b. Violin, Fourth Year.—*I, II; (4).*

66a-66b, 66c-66d, 66e-66f, 66g-66h. Violin.—Violin taken as a minor by students majoring in piano, voice, or organ. *I, II; (2).*

67a-67b, 67c-67d, 67e-67f, 67g-67h. Violin.—For students of other departments of the University. *I, II; (2).*

## Violoncello

Mr. SCHWARTZ

NOTE.—A student enrolled in *violoncello* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *violoncello*.

71a-71b. Introductory Course in Violoncello, First Year.—*I, II; (no collegiate credit).*

71c-71d. Introductory Course in Violoncello, Second Year.—*I, II; (no collegiate credit).*

71e-71f. Introductory Course in Violoncello, Third Year.—*I, II; (no collegiate credit).*

For all courses, Music, 72a to 77h, inclusive.—

*Prerequisite:* Music 71a-f or equivalent.

72a-72b. Violoncello, First Year.—*I, II; (4).*

73a-73b. Violoncello, Second Year.—*I, II; (4).*

74a-74b. Violoncello, Third Year.—*I, II; (4).*

75a-75b. Violoncello, Fourth Year.—*I, II; (4).*

76a-76b, 76c-76d, 76e-76f, 76g-76h. Violoncello.—Violoncello taken as a minor by students majoring in piano, voice, or violin. *I, II; (2).*

77a-77b, 77c-77d, 77e-77f, 77g-77h. Violoncello.—For students from other departments of the University. *I, II; (2).*

## Organ

Director ERB, Miss SEELYE, Mrs. MCATEE

NOTE: A student enrolled in *organ* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *organ*.

Students desiring to take *organ* will be obliged to pass without conditions the entrance examination in piano. Under no circumstances will they be accepted if their piano work falls below the standard represented by this examination.

81-82. Organ, First Year.—*I, II; (4).*

84-85. Organ, Second Year.—*I, II; (4).*

86-87. Organ, Third Year.—*I, II; (4).*

88-89. Organ, Fourth Year.—*I, II; (4).*

83a-83b, 83c-83d, 83e-83f, 83g-83h. Organ.—Organ taken as a minor by students majoring in piano, voice, or violin or enrolled in another School or College of the University. *I, II; (2).*

### Band and Recital Work

90a-90b. Band Instruments.—Band Instruments taken as a minor by students majoring in piano, voice, or violin. *I, II; (2).* Mr. HARDING

92a-92b. Band Instruments.—*I, II; (no credit).* A student enrolled in this course is required to take either choral or orchestra, and if absent from choral or orchestra more than three times a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in the course. Mr. HARDING

94a-94b. Recital Course in Practical Music.—(For juniors and seniors in Music 44a-44b, 45a-45b, 54a-54b, 55a-55b, 64a-64b, 65a-65b, 86-87, 88-89.) *I, II; (1).*

96a-96b. Band Instrumentation.—*I, II; (no credit).* Mr. HARDING

97a-97b. Band Arranging.—*I, II; (no credit).* Mr. HARDING

98a-98b. Band Conducting.—*I, II; (no credit).* Mr. HARDING

### Summer Session Courses

S1. Musical History.—From the beginning of music to the Middle Ages. Collateral reference work and note books. (1). Director ERB

*Prerequisite:* The consent of the instructor.

*Equivalent:* Music 1 (first half; second half to be given next summer).

S3. Harmony.—Summary and drill in scales and key, intervals, triad construction and connection; harmonization of figured bass and given melody; harmonization in two clefs. (1). Director ERB

*Prerequisite:* The Rudiments of Theory.

*Equivalent:* Music 3 (first half; second half to be given next summer).

S5. Sight Singing.—Elementary Course, Music notation; scale structure; solfeggio. No university credit. Miss PHILLIPS

*Prerequisite:* Entrance credit.

*Equivalent:* Music 23a (first half; second half to be given next summer).

S6. Public School Music Methods. Problems of supervision in the grades; study of material and technic of teaching. (3). Miss PHILLIPS

*Prerequisite:* 2 years of sight reading and the consent of the instructor.

*Equivalent:* Music 25a (in part, Music 6a, as given in 1918 Summer Session, and Music 6, as above, complete the work of Music 25a).

S7. Ear Training, Elementary Course.—Formation and recognition of intervals, separately and in combinational rhythmic drill; melody making and writing. No university credit. Miss PHILLIPS

*Prerequisite:* Entrance credit.

*Equivalent:* Music 21a (first half; second half to be given next summer).

**S41a-41f. Introductory Course in Piano.**—*Arrange hours.* No university credit.

Miss TREAT

*Prerequisite:* The consent of the instructor.

*Equivalent:* Music 41a-41f (in part).

**S42-46. Piano, Collegiate Grade.**—*Arrange hours.* (1 or 2).

Miss TREAT

*Prerequisite:* Three years of piano study.

*Equivalent:* Music 42-46 (in part).

**S47. Piano, Collegiate Grade.**—For students in other schools and colleges of the University. (1).

Miss TREAT

*Prerequisite:* Three years of piano study.

*Equivalent:* Music 47 (in part).

**S51a-51f. Introductory Course in Voice.**—No university credit.

Mr. JOHNSON

*Prerequisite:* The consent of the instructor.

*Equivalent:* Music 51a-51f (in part).

**S52-56. Voice, Collegiate Grade.**—For students in other schools and colleges of the University. (1 or 2).

Mr. JOHNSON

*Prerequisite:* Three years of vocal study.

*Equivalent:* Music 52-56 (in part).

**S57. Voice, Collegiate Grade.**—For students in other schools and colleges of the University. *Arrange hours.* (1).

Mr. JOHNSON

*Prerequisite:* Three years of vocal study.

*Equivalent:* Music 57 (in part).

**S81. Organ.**—*Arrange hours.* (1)

Miss TREAT

*Prerequisite:* Three years of piano study or the equivalent.

*Equivalent:* Music 81 (in part).

**S83. Organ.**—For students in other schools and colleges of the University. (1).

Miss TREAT

*Prerequisite:* Three years of piano study or the equivalent.

*Equivalent:* Music 83 (in part).

Students desiring to take organ will be obliged to pass without conditions the entrance examination for collegiate standing in piano.

Campus sing every Wednesday evening at 6:45. Auditorium steps.

## PALEONTOLOGY

(See GEOLOGY.)

## PHILOLOGY

(See CLASSICS, COMPARATIVE PHILOLOGY, ENGLISH LANGUAGE AND LITERATURE, GERMANIC LANGUAGES AND LITERATURE, and ROMANCE LANGUAGES AND LITERATURE.)

## PHILOSOPHY

(See also PSYCHOLOGY and EDUCATION.)

ARTHUR HILL DANIELS, Ph.D., *Professor*

BOYD HENRY BODE, Ph.S., *Professor*

AXEL BRETT, A.M., *Assistant*

**Major:** Twenty hours from any courses offered by the department, including Philosophy 1, 2, 3, and 4, and one other advanced course. Six hours in psychology may be counted toward a major in philosophy.

**Minors:** Twenty hours in (a) psychology (at least six additional hours, if psychology is counted toward a major), and one other subject in the following list; or (b) any two subjects in the same group in the following list: (A) economics, history, political science, education, sociology; (B) English, French, German, Greek, Latin; (C) botany, chemistry, mathematics, physics, zoology. No course in any subject of the above groups may be counted for the minor requirement if it is excluded from the major requirement of its respective department.

### Courses for Undergraduates

1. **Logic.**—The principles of reasoning; detection of fallacies; evidence. *I* or *II*; (3).

Professor BODE, Mr. BRETT

*Prerequisite:* One year of university work.

2. **Introduction to Philosophy.**—Philosophic problems in their relation to the doctrine of evolution and in their bearing on conduct and religion. *II*; (3).

Professor BODE, Mr. BRETT

*Prerequisite:* Two years of university work.

### Courses for Advanced Undergraduates and Graduates

3. **History of Ancient and Medieval Philosophy.**—*I*; (3). Professor DANIELS

*Prerequisite:* Three hours in philosophy; junior standing.

4. **History of Modern Philosophy.**—From the Renaissance to the present time. *II*; (3). Professor DANIELS

*Prerequisite:* Three hours in philosophy; junior standing.

5. **Political Philosophy.**—A study of significant theories of the state, ancient, medieval and modern; state sovereignty and morality with special reference to international relations. *II*; (3). Professor DANIELS

*Prerequisite:* Senior or graduate standing; one year of college history, and political science 1 or 3.

7. **Ethics.**—The beginnings and growth of morality; the fundamental questions of ethical theory; social and economic problems of the present. *II*; (3).

Professor DANIELS

*Prerequisite:* Three hours in philosophy; senior standing.

9. **Political and Social Ethics.**—A study of the standards and principles of human conduct in political and social relations. Rights and duties of the state and the citizen. International morality. *I*; (3). Professor DANIELS, Mr. BRETT

*Prerequisite:* Two years of university work.

15. **British Philosophers of the Eighteenth Century.**—Locke, Berkely, and Hume. *I*; (3). Professor BODE

*Prerequisite:* Philosophy 2 or 3 or 4.

16. **Philosophy of Pragmatism.**—*II*; (3).

Professor BODE

*Prerequisite:* Philosophy 15.

### Courses for Graduates

Students entering on graduate work in philosophy must have had a thoro course in the history of philosophy, a course in logic, and a general course in psychology.

103. **Seminar in Ethics.**—British ethics from Hobbes to Sidgwick. *Twice a week; II; (1 unit).* Professor DANIELS

**107a-107b-107c. History of Philosophy.**—a: Plato and Aristotle. *Twice a week; (1 unit)*. b: Descartes, Spinoza, and Leibniz. *Twice a week; (1 unit)*. c: Kant and Schopenhauer. *Twice a week; I, II; (1 unit)*. (The subjects in 1919-20 will be determined by the needs of the students registered.) Professor DANIELS

**108a-108b-108c. Seminar in contemporary Philosophy.**—a: Idealism. *Twice a week; (1 unit)*. b: Realism and pragmatism. *Twice a week; (1 unit)*. c: The Philosophy of Bergson. *Twice a week; (1 unit)*. *I, II*. (The subjects in 1919-20 will be determined by the needs of the students registered.) Professor BODE

### Summer Session Course

#### Course for Advanced Undergraduates and Graduates

**S9. Political and Social Ethics.**—A study of the standards and principles of human conduct in political and social relations. Rights and duties of the state and the citizen. International morality. (2). Professor DANIELS

*Prerequisite:* Two years of university work or the equivalent.

*Equivalent:* Philosophy 9.

### PHOTOGRAPHY

ARTHUR GRENVILLE ELDREDGE, *Instructor*

**1-2<sup>1</sup>. The Principles and Practise of Photography.**—Lenses, cameras; plates and films; exposure; development; printing; copying; positives; landscape, architectural, and scientific photography; speed work, color photography. Lectures; demonstrations; each student is required to produce a stated amount of work covering processes treated. (For advanced students who use photography in connection with their special subjects.) *I, II; Once a week; (no credit)*. Mr. ELDREDGE

*Prerequisite:* Junior standing and the consent of the instructor.

### PHYSICAL EDUCATION FOR MEN

GEORGE A HUFF, B.S., *Director*

ROBERT CARL ZUPPKE, PhB., *Assistant Professor, Football*

JOHN L GRIFFITH, A.B., *Assistant Professor, Physical Education*

HARRY LOVERING GILL, *Associate, Track*

RALPH JONES, *Associate, Basketball*

ARTHUR J SCHUETTNER, E.G., *Associate, Director of Men's Gymnasium*

GEORGE CLARK, B.S., *Associate, Football*

EDWIN JOHN MANLEY, *Instructor, Swimming*

DAVID MADISON BULLOCK, *Assistant*

ERVIN ARTHUR KNOTH, G.G., *Assistant*

ERNESTO RAY KNOLLIN, A.B., *Student Assistant*

**1-2. Gymnasium Practise.**—Two hours' gymnasium each week. (Required of freshmen.) *I, II. (1)*. Mr. SCHUETTNER, Mr. KNOTH

**1a. Personal Hygiene.**—Lectures by Dean of Men and Health Officer. Required in conjunction with Physical Education 1. *I or II. (½)*. (Required second semester for all freshmen and new students who did not take the course the first semester).

Dean CLARK, Dr. BEARD

<sup>1</sup>This course is continuous throughout the year.

**3. Elementary Gymnastics, Boxing, Wrestling, and Fencing.**—Three hours' gymnasium exercise each week. *I*; (1).

*Prerequisite:* Physical Education 1 and 2 and consent of the instructor.

**4. Advanced Physical Education.** (Continuation of Physical Education 3). Three hours' gymnasium exercise each week. *II*; (1).

*Prerequisite:* Physical Education 3 and consent of instructor.

### Summer Session Courses

#### A. ATHLETIC COACHING

NOTE.—Courses in physical education for men continue through only six (6) weeks.

**S10. Baseball.**—Batting; base running; fielding each position; team work and coaching; rules; physical condition; indoor practise. Lectures; practical work. (1½).

Director HUFF

**S11. Track and Field Athletics.**—Starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer throw, and discus; preparing contestants for events; individual peculiarities; rules; physical condition; promotion, management, and officiating of games and meets. Lectures, practical work. (1½).

Mr. GILL

**S 12. Basketball.**—Coaching; passing; goal throwing; dribbling; team play; condition; the different styles of play used by leading coaches. Lectures; practical work. (1½).

Mr. JONES

**S13. Football.**—Rules; offense and defense; generalship and strategy. Training; conditioning; equipment; kicking, forward passing; tackling dummy and charging sled; drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work. (1½).

Mr. ZUPPKE

**S14. Training.**—Training, massage, treatment of sprains, bruises; bandaging and first aid. Lectures; practical work. (½).

Mr. JONES

#### B. GYMNASTICS

**S15. Calisthenics.**—Typical lessons for corrective and responsive work. Instruction given in free exercises. The course covers the use of wands, clubs, and dumb-bells. (⅓).

Mr. SCHUETTNER

**S17.—Elementary Gymnastics.**—Theory and practise in elementary exercises on mats, horse, horizontal bar, rings, and parallel bars. Accuracy of form and execution emphasized. A large variety of rapid mass work adapted to the average class. (½).

Mr. SCHUETTNER

**S18. Intermediate Gymnastics.**—More advanced work along the same lines as Course S17. The laws of gymnastic progression, nomenclature and analysis of exercises, and the use of heavy apparatus. (½).

Mr. SCHUETTNER

**S19. Advanced Gymnastics.**—Heavy apparatus. Advanced exercises on heavy apparatus; nomenclature; skill, form, and accuracy of execution. (½).

Mr. SCHUETTNER

**S21. Gymnastic Dancing.**—(a) Elements of steps, simple steps and series dancing (b) Practise teaching and more advanced steps. (½).

Mr. SCHUETTNER

**S23. School Room Gymnastics.**—The possibilities of exercises for elementary grades and high school. Exercises suitable for school-room. Practise teaching. (⅓).

Mr. SCHUETTNER

### PHYSICAL EDUCATION FOR WOMEN

LOUISE FREER, A.B., B.S., *Director*  
 VERA BROOKS, A.B., *Instructor*  
 EMILIE RAY BOWMAN, B.S., *Instructor*  
 ANNA LUE HUGHITT, *Instructor*  
 MARGARET BARTO, A. M., *Instructor*  
 MADGE RUSH, *Assistant*  
 CLARIS RITTER, *Assistant*  
 RUTH HOOVER, *Assistant*

**7a-7b. Practise.**—Class work; light gymnastics; gymnastic dancing; games; personal hygiene; corrective work. (Required of freshmen). *I, II; (2).*

Miss FREER, Miss BROOKS, Miss HUGHITT, Miss BARTO, Miss BOWMAN

**8a-8b. Practise.**—(Continuation of 7a-7b. Required of all sophomores). *I, II; (2).*

Miss BROOKS, Miss HUGHITT, Miss BARTO, Miss BOWMAN

*Prerequisite:* Physical Education 7a-7b.

**9. Hygiene.**—(Required of freshmen). *I, II; (1).* Dr. MOULTON, Dean MASON

(Required second semester for all freshmen and new students who did not take the course first semester).

**10a-10b. The Teaching of Physical Education.**—(Third Year). Theory and practise; practise teaching in the gymnasium and in public schools. Lectures and outside reading. *Two hours a week. I, II; (1), (2).*

Miss BOWMAN

*Prerequisite:* One year of gymnasium work and psychology, or education; registration in Physical Education, 7 or 8.

**11a-11b. Teachers' Course.**—(Fourth Year). Massage, theory, and practise; emergencies (including bandaging); anthropometry, practise work in measurements for physical examinations. *I, II; (2).*

Miss HUGHITT

*Prerequisite:* Physical Education 8.

**12a-12b. Esthetic and Interpretative Dancing.**—Exercises in technic. *I, II.*

Miss BROOKS

*Prerequisite:* Physical Education 7a-7b.

**13a-13b. Interpretive Dancing.**—*I, II.*

Miss HUGHITT

*Prerequisite:* Physical Education 8 and 12.

**14a-14b. Swimming.**

### Summer Session Courses

Miss BUSSELL and Miss HOOVER

**S1. Games.** ( $\frac{1}{2}$ ).

**S2. Gymnastics.** ( $\frac{1}{2}$ ).

**S3. Folk Dancing.** ( $\frac{1}{2}$ ).

**S4. Esthetic Dancing.**—(*no credit*).

**S5. Swimming.**—(*no credit*).

### PHYSICS

ALBERT PRUDEN CARMAN, D.Sc., *Professor, Head of the Department*  
 CHARLES TOBIAS KNIPP, Ph.D., *Professor, Experimental Electricity*  
 LLOYD ROWE WATSON, Ph.D., *Professor, Experimental Physics*  
 JAKOB KUNZ, Ph.D., *Associate Professor, Mathematical Physics*  
 WILLIAM FREDERICK SCHULZ, Ph.D., *Assistant Professor*  
 ELMER HOWARD WILLIAMS, Ph.D., *Assistant Professor, Experimental Physics*  
 WILLIAM HENRY HYSLOP, A.M., *Instructor*



CHARLES FRANCIS HILL, A.M., *Assistant*  
 CHARLES STEVER FAZEL, A.M., *Assistant*  
 ROY ANDREW NELSON, B.S., *Assistant*  
 EDWIN COULTHARD FRITTS, B.S., *Assistant*  
 CLAUDE JEROME LAPP, A.B., *Assistant*  
 ELMER NELS TURNQUIST, A.B., *Assistant*  
 DUANE CAMPBELL COLMEY, A.B., *Assistant*  
 CLARENCE CARL SCHMIDT, A.B., *Assistant*  
 RALPH DOUGLAS DONER, B.S., *Graduate Assistant*

Physics 7a-7b and 8a-8b are recommended to students not specializing in mathematics, chemistry, or engineering. For undergraduate students taking advanced work or a major in physics, the following outline of work is suggested:

Freshman year: Trigonometry (Math. 4) and Chemistry. Sophomore year: Physics 1a-1b, 3a-3b, or Physics 7a-7b, 8a-8b. Junior year: Physics 15, 16 and 36, 17, 23, or 24. Senior year: Physics 4a-4b, 14a-14b, 20, 22, 25, 30, or 31.

### Introductory Courses for Undergraduates

**1a-1b. General Physics.**—Lectures with class-room demonstration; recitations; written exercises. (For sophomores in engineering, mathematics, physics, and chemistry.) *I, (3); II, (2).*

Professor CARMAN, Assistant Professor SCHULZ, Mr. HYSLOP, Mr. FAZEL, Mr. NELSON, Mr. FRITTS, Mr. LAPP, Mr. TURNQUIST, Mr. COLMEY, Mr. DONER, Mr. SCHMIDT.

*Prerequisite:* Registration in Physics 3a-3b; freshman mathematics.

**3a-3b. Physical Measurements.**—Laboratory experiments; quizzes in connection with Physics 1a-1b. *I, II; (2).*

Assistant Professor SCHULTZ, Mr. HYSLOP, Mr. NELSON, Mr. FRITTS, Mr. LAPP, Mr. TURNQUIST, Mr. COLMEY, Mr. DONER, Mr. SCHMIDT.

*Prerequisite:* Physics 1a-1b or registration therein.

**7a-7b. General Physics.**—Lectures; class-room demonstrations; recitations. (For students in arts and science.) *I, II; (2½).*

Professor WATSON, Assistant Professor WILLIAMS, Mr. HILL  
*Prerequisite:* Mathematics 4, or registration therein; registration in Physics 8a-8b.

**8a-8b. Introductory Laboratory Physics.**—Physical measurements. *I, II; (2½).*

Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Registration in Physics 7a-7b.

**9a-9b. General Physics.**—Lectures; class-room demonstrations; recitations. (For students in architecture.) *I, II; (2).*

Professor WATSON, Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Mathematics 4; registration in Physics 10a-10b.

**10a-10b. Introductory Laboratory Physics.**—Physical measurements. *I, II; (2).*

Assistant Professor WILLIAMS, Mr. HILL

*Prerequisite:* Registration in Physics 9a-9b.

### Intermediate Courses

**15. Electricity and Magnetism.**—For students in non-technical courses who wish a knowledge of electricity and magnetism beyond the course in general physics. Two recitations or lectures and one three hour laboratory exercise weekly. *I; (3).*

Professor KNIPP

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**16. Heat.**—Heat phenomena; mechanical theory of heat; thermodynamics. Laboratory experiments in thermometry, calorimetry, vapor pressure, expansion of bodies, transmission of heat, and mechanical equivalent, and method of measurement of high temperatures. *I*; (3). Professor WATSON

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**17. Light.**—Reflection, refraction, interference, diffraction, and polarization; optical instruments; lectures and laboratory. (For students in general physics, but also adapted to those who wish to learn the use of optical instruments.) *II*; (3). Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b; 3a-3b; or 7a-7b.

**[18. Teachers' Course.]**—Text-books, reference books, laboratory manuals, apparatus ordering, and methods of conducting work. Manipulative work with glass and apparatus. Selected topics in advanced general physics. *II*; (3). Professor WATSON

*Prerequisite:* A course in general physics, or experience in teaching.]

**36. Heat Measurements.**—Laboratory experiments in thermometry, calorimetry, vapor pressure, expansion of bodies, transmission of heat, mechanical equivalent, and method of measurement of high temperatures. This course is designed to accompany Physics 16. *I*; (1). Professor WATSON

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**37. Light Measurements.**—Laboratory experiments on the determination of constants of mirrors, lenses, prisms and gratings, their arrangement in optical instruments, and the use of refractometer, telescope, microscope, polarimeter, spectrometer and interferometer. This course is to be taken with or after Physics 17. *I* or *II*; (1). Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**40. Present Problems in Physics.**—The Electron theory of matter. This course discusses recent applications of the electron theory. Some of the special topics will be: Zeeman effect; photoelectricity; phosphorescence; chemical action of light and cathode rays; electron theory of metals; of magnetism; structure of the atom. The method of physical intuition will be used, excluding complicated mathematical analysis. The course would be of interest to students in physics, chemistry, electricity, and natural science in general. Experiments accompanying this course are described under Physics 41, and both courses should be taken at the same time. The course is open to graduates and qualified seniors. *II*; (2). Professor KUNZ

*Prerequisite:* Course in general physics and senior standing.

**41. Experiments on Present Problems in Physics.**—A series of experimental lectures illustrating some of the more recent discoveries in physics. The main topics to be presented are: the production and measurement of high vacua; the study of electric discharge in vacuum tubes; cathode rays; positive rays; X-rays; universal occurrence of electrons; the determination of the charge of the electron by electrostatic and magnetic deflection methods, by fog method, by Brownian movements, and by radioactivity; ionization of gases by X-rays,  $\alpha$ ,  $\beta$ , and  $\gamma$  rays; photoelectricity; Zeeman effect, and kindred phenomena. This course accompanies Physics 40 and is open to graduates and qualified seniors. *II*; (1). Professor KUNZ

*Prerequisite:* Registration in Physics 40.

#### Courses for Undergraduates and Graduates

**4a-4b. Electrical and Magnetic Measurements.**—First semester: measuring very high and very low resistances; aperiodic and ballistic; galvanometers; electric currents and quantity; capacities. Second semester: absolute determination of capacity; the damping

factor of a ballistic galvanometer; circuits containing resistance and self-induction; measurement of self and mutual induction; magnetic properties of iron; plotting of curves; hysteresis losses. Potentiometers. *I, II; (2).* Professor KNIPP, Mr. FAZEL

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 7, 9.

**14a. Introduction to Theoretical Physics.**—Motion, mass, and force. (For the student of general science as well as for students of physics and mathematics.) Recitations; problems; lectures. *I; (3).* Associate Professor KUNZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 8 or 7 and 9.

**20. Light.**—Special phenomena; modern theories; readings in texts of Drude, Wood, and Preston. Lectures; recitations. *I, (2).* Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 7 and 9, or 8.

**22. Advanced Light Measurements.**—Wavelength determinations with gratings, echelons, and interferometers, spectroscopic work, Zeeman effect, polarimetric analysis, resolving power of instruments, photometry and spectrophotometry. *I; (2-5)<sup>1</sup>*

Assistant Professor SCHULZ

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**23. Sound.**—Origin, propagation, velocity, interference, and diffraction; vibrations of strings and organ pipes; music and speech. Lectures, recitations, laboratory. *II; (3).*

Professor WATSON

*Prerequisite:* Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

**24. Properties of Matter.**—Gravitation, elasticity, capillarity, and other general properties of matter. Recitations; lectures. *II; (2).* Assistant Professor WILLIAMS

*Prerequisite:* Physics 1 and 3; or 7 and 8; Mathematics 7 and 9, or 8.

**27. Fundamental Physical Measurements.**—Measurements of length, mass, time, and of determinations of gravitation, elasticity, surface tension, viscosity. Laboratory. *II; (1).*

Assistant Professor WILLIAMS

*Prerequisite:* Course in general physics.

**30. Introduction to Theoretical Electricity.**—Electrical and magnetic phenomena discussed with calculus methods. Magnetism, electrostatics, electrolysis, thermoelectricity, electromagnetics, varying currents, alternating currents, units, electromagnetic radiation, conduction through gases, radioactivity, electrons. (For advanced students in physics, chemistry, mathematics, and engineering.) Lectures; recitations; demonstrations. *II; (3).*

Professor KNIPP

**31a-31b. Special Problems in Advanced Physical Measurements.**—*I, II; (2 or 3).<sup>1</sup>*

Professor CARMAN, Professor KNIPP, Professor WATSON, Assistant Professor SCHULZ, Dr. WILLIAMS.

### Courses for Graduates.

The prerequisite for graduate work in physics is a college course in general physics with a year's laboratory course in introductory physical measurements. The student who is to do major work in physics should also have had additional courses in physics or teaching experience, unless the training in his minor subjects, mathematics or chemistry, has been strong and complete. He should also have a knowledge of French and German sufficient to use references in these languages. The courses named below are those open for candidates for the Master's or Doctor's degree. A large part of the last year's work of the candidate for the Doctor's degree is investigational in either experimental or theoretical physics. In addition to these major graduate courses, the courses in elementary dynamics, heat, light, electrical measurements, and introductory electrical theory are arranged with

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course.

certain additions for graduate credit. The "intermediate" courses on heat, light and electricity and magnetism (Physics 15, 16, 17, 24) may be offered by students making a minor in physics, and with certain limitations by students in their first year of graduate work for major credit.

**104a-104b. Selected Problems in Electrical Measurements.**—First semester: very high and very low resistances; galvanometers; damping factor and critical damping resistance; electric current and quality; capacities; absolute determination of capacity; Dolezalek quadrant electrometer; dielectric constants; the measurement of  $v$  and  $e/m$  for cathode rays; positive electricity; potentiometer. Second semester: properties of iron, hysteresis curves and losses. Recommended for graduate students in chemistry. *I, II; ( $\frac{3}{4}$  unit).* Professor KNIPP

**[121. Recent Advances in Physics and the Electron Theory.**—Occurrence of electrons; properties; gaseousness; determination of  $e/m$  and  $v$  of the electron and of the ion; positive rays in gas analysis; color effects of electrons, of ions, and of retrograde rays in residual hydrogen, helium, neon, and argon; determination of the elementary charge of the electron by the fog method, by radioactivity. *II; ( $\frac{1}{4}$  unit.)* Not given in 1919-20. Professor KNIPP]

**123. Sound.**—Wave motion; forced vibrations; velocity and energy relations of sound waves; resonance; vibrations of strings and organ pipes. *Three times a week; II; ( $\frac{3}{4}$  unit).* Professor WATSON

**124. Conduction of Electricity Through Gases.**—Discharge phenomena. In the second semester an original problem is assigned. Laboratory, collateral reading; discussion. *Three times a week; I, II; (1 to 2 units).* Professor KNIPP

**126. Physics Colloquium.**—Weekly meetings of the instructors and advanced students of the department for the presentation and discussion of papers on current problems in physics. Attendance is expected of all graduate students. *Once a week; I, II; (no credit).*

**127a. Problems of Present Theoretical Investigations in Physics.**—Fundamental laws of nature; least action; equipartition of energy; entropy and probability; laws of radiation; the energy quantum. *I, II; ( $\frac{1}{2}$  unit).* Associate Professor KUNZ

**127b. Electron Theory.**—(Seminar). The Zeeman and corresponding phenomena; electro and magneto-optics; spectra; dispersion; photoelectricity; phosphorescence; chemical action of light and electrons; metals and magnetism; the atom. (Of special interest to students in chemistry and general science.) *Twice a week; II; (1 unit).*

**131. Investigation of Special Problems.**—Advanced laboratory or design and calculation. A problem worked out with the advice and direction of the instructor. *Two to four times a week; I, II; (1 to 2 units).*

Professor CARMAN, Professor KNIPP, Professor WATSON, Associate Professor KUNZ, Assistant Professor SCHULZ, Dr. WILLIAMS.

**132. Mathematical Physics.**—Special phases of theoretical physics.

(a.) **Dynamics.**—Newton's equations, general methods of integration, potential theory, potential of the ellipsoid, celestial mechanics, least constraint, virtual work; D'Alembert's and Hamilton's principles; special problems of hydrodynamics and of electricity. *Three times a week; I, II; (1 unit).* Associate Professor KUNZ

(b.) **Electrodynamics.**—The potential theory; electrical and magnetic polarization; spherical harmonics; images and inversion; conjugate functions; elliptic coordinates and integrals; magnetic actions of currents; coefficients of capacity; self and mutual induction; absolute measurements; Maxwell's theory; optics. Lectures; collateral reading. *Four times a week; I, II; (1 unit).* Not given, 1919-20.

[(c). **Thermodynamics and Kinetic Theory of Matter.**—The two fundamental principles; chemical equilibrium; the Nernst theorem; the direct method of Carnot's cycle; thermodynamic potentials and the derived functions; Maxwell's theory of velocities in a gas; Boltzman's H theory; radiation; Planck's theory of quanta. *I, II; (1 to 2 units).* Not given, 1919-20.]

**132d. Electric Oscillations.**—Maxwell's theory of the electromagnetic field. Electric oscillations along single and parallel wires; Hertz's oscillator; theory of the antennal propagation of waves over the surface of the earth; absorption; reflection; diffraction and scattering of electric and light waves. From the mathematical point of view, this course is an application of the potential theory involving spherical and cylindrical harmonics. *I; (¾ unit).* Associate Professor KUNZ

**133. Seminar.**—*Three or five times a week; I, II; (1 to 3 units).* Professor CARMAN  
Professor KNIPP, Professor WATSON, Associate Professor KUNZ, Assistant Professor SCHULZ

### Summer Session Courses

**S1a. General Physics.**—Mechanics and the Properties of Matter, Heat—Lectures with classroom demonstrations; recitations; written exercises. (For sophomores in engineering, mathematics, physics and chemistry). (2).

Professor KNIPP, Mr. HYSLOP, Mr. LAPP

*Prerequisite:* Registration in S3a; freshman mathematics.

*Equivalent:* Physics 1a (in part).

**S3a. Physical Measurements.**—Laboratory experiments on mechanics, the properties of matter, and heat. (1½). Mr. HYSLOP, Mr. LAPP

*Prerequisite:* Physics 1a, or registration in S1a.

*Equivalent:* Physics 3a (in part).

**S7I.—General Physics, Part I.**—Lectures with experimental demonstrations and recitations on mechanics, including the fundamental laws of motion, forces and their effects, equilibrium, etc. (For students in arts and sciences). (1½).

Assistant Professor WILLIAMS, Mr. FRITTS

*Prerequisite:* Plane geometry and high school algebra; registration in Physics S8I. Plane Trigonometry desired.

*Equivalent:* S7I together with S8I are equivalent to 7a and 8a, or 9a and 10a (in part). S7 (I, II, III) together with S8 (I, II, III) are equivalent to Physics 7a-7b, 8a-8b, or to Physics 9a-9b, 10a-10b for the college year.

**S8I. Introductory Laboratory Physics, Part I.**—A laboratory course in physical measurements on mechanics, properties of matter, forces, equilibrium, etc., to accompany S7I. (1½). Assistant Professor WILLIAMS, Mr. FRITTS

*Prerequisite:* Registration in Physics S7I.

*Equivalent:* See S7I.

**S7II. General Physics, Part II.**—Experimental lectures with recitations on electricity and magnetism. (1½). Professor KNIPP, Mr. FRITTS

*Prerequisite:* See S7I.

*Equivalent:* See S7I.

**S8II. Introductory Laboratory Physics, Part II.**—Laboratory experiments in electricity and magnetism to accompany S7II. (1½). Assistant Professor WILLIAMS, Mr. FRITTS

*Prerequisite:* Registration in S7II.

*Equivalent:* See S7I.

[S7III. **General Physics, Part III.**—Heat, light, and sound. ( $1\frac{1}{2}$ ). Not given in 1919.

*Prerequisite:* Same as S7I.

*Equivalent:* See S7I.]

[S8III. **Introductory Laboratory Physics, Part III.**—Laboratory experiments in heat, light, and sound to accompany S7III. ( $1\frac{1}{2}$ ). Not given in 1919.

*Prerequisite:* Registration in Physics S7III.

*Equivalent:* See S7I.]

**S4a. Electrical and Magnetic Measurements.**—Accurate measurement of resistance by commutating Wheatstone bridge, the Carey Foster bridge, and the Kelvin double bridge; insulation resistance; aperiodic and ballistic galvanometers; electric current and quantity; electric capacity. Discussions, recitations, and reports. Either 4 3-hour laboratory periods, or 3 3-hour laboratory periods. (2). Mr. HYSLOP

*Prerequisite:* A course in general physics and calculus.

*Equivalent:* This course is regularly the equivalent of the first semester of Physics 4a. For the present Summer Session it is also offered, as above stated, as the equivalent of the Physics 4a (in part).

**S15. Electricity and Magnetism.**—Lectures, recitations, and laboratory. This course is recommended to students who wish a broader and more accurate knowledge of electrical phenomena and theory than that given in the courses on general physics. ( $1\frac{1}{2}$ ). Mr. LAPP

*Prerequisite:* A course in general physics.

*Equivalent:* Physics 15 (in part).

**S16. Heat.**—Lectures and recitations on fundamental heat phenomena accompanied by laboratory experiments in thermometry, calorimetry, transmission of heat, mechanical equivalent of heat, expansion, vapor pressure, etc. This is an intermediate course recommended to students who have already had a course in general physics and desire a more extended knowledge of heat. ( $1\frac{1}{2}$ ). Assistant Professor WILLIAMS, Mr. FRITTS

*Prerequisite:* A course in General Physics.

*Equivalent:* Physics 16 (in part).

[**S17. Light.**—A course of lectures and recitations on reflection, refraction, interference, diffraction and polarization, followed by laboratory experiments on these phenomena, and the theory and use of optical instruments, such as telescopes, microscopes, refractometers, prism and grating spectroscopes, interferometers, etc. Not given in 1919.

*Prerequisite:* A course in general physics.

*Equivalent:* Physics 17 (in part).]

**S18. Teachers' Course.**—This course is in two parts. Part I, not given in 1919. Part II, consists of practical laboratory manipulation, such as glass blowing, minor repairs of apparatus, preparation of direction sheets, etc. ( $\frac{1}{2}$ ). Mr. LAPP

*Prerequisite:* A course in general physics, or teaching experience in physics.

*Equivalent:* Physics 18 (in part).

[**S24. Properties of Matter.**—The fundamental properties of matter, weight, mass, gravitation, elasticity, viscosity, surface tension and diffusion. Lectures and recitations. Laboratory measurements including the use of the dividing engine, chronograph, etc. ( $1\frac{1}{2}$ ) Not given in 1919.

*Prerequisite:* A course in general physics.

*Equivalent:* Physics 24 (in part).]

**S21. Recent Advances and Applications in Physics.**—Popular lectures, illustrated by experiments, on recent advances and applications of physics. ( $\frac{1}{2}$ ).

Professor KNIPP and Assistant Professor WILLIAMS in charge

**S26. Physics Teachers' Colloquium.**—The problems which the teacher of physics in the high school encounters, including methods of class conduction; criticisms of high school text books of physics; organization of laboratory work; selection of experiments and accompanying apparatus, etc. ( $\frac{1}{2}$ ). Professor KNIPP, Assistant Professor WILLIAMS and others

*Prerequisite:* Enrollment in one of the physics courses.

#### Course for Advanced Undergraduates and Graduates

**S31. Special Problems in Advanced Physical Measurements.**—Special laboratory problems such as the accurate determination of the value of  $H$ , the horizontal component of the earth's magnetic intensity; of the self-induction,  $L$ , of a coil; of the capacity,  $C$ , of a condenser in absolute measure; the calibration of a bridge wire; the determination of  $e$ - $m$  and  $v$  of the electron; the adjustment of an electrometer and the determination of its capacity, etc. (1,  $1\frac{1}{2}$ , or 2). Professor KNIPP, Assistant Professor WILLIAMS

*Prerequisite:* A course in general physics, elementary calculus.

#### Course for Graduates

**S131. Investigation of Special Problems.**—This course is available for students who are working toward or who have taken their advanced degrees, and consists of individual special problems which will be under the general supervision of one of the professors. The work done should show originality in method, or should contribute new data in experimental investigation. (1,  $1\frac{1}{2}$ , or 2). Professor KNIPP, Assistant Professor WILLIAMS

### PHYSIOLOGY

WILLIAM EDWARD BURGE, Ph.D., *Assistant Professor*

ALMA JESSIE NEILL, A.B., *Assistant*

JANE MARIE LEICHSENRING, B.S., *Assistant*

**Major:** Twenty hours made up of any courses offered in the department exclusive of Physiology 10 and 10a.

**Minor:** Twenty hours in bacteriology, botany, chemistry, and zoology.

#### Courses for Undergraduates

**10. General Mammalian Physiology.**—The functions of the respiratory, secretory, excretory, nervous, muscular, and digestive systems, and glands of internal secretion. *I*; (3). Assistant Professor BURGE, Miss NEILL, Miss LEICHSENRING

*Prerequisite:* Thirty hours of university work or two units of high-school science including 1 unit of biology.

**10a. Physiological Anatomy.**—The organs of a mammal with special reference to function. *I*; (2). Assistant Professor BURGE, Miss NEILL, Miss LEICHSENRING

*Prerequisite:* Registration in Physiology 10.

**11. Physiology of the Glands of Internal Secretion.**—The functions of the thyroids, parathyroids, adrenals, pancreas, pituitary body, and thymus. *II*; (2).

Assistant Professor BURGE, Miss NEILL

*Prerequisite:* Physiology 10 and 10a.

**4. Physiology of Secretion, Digestion, Absorption, Metabolism, and Excretion.**—(Recommended, especially for Home Economics students.) *I* or *II*; (5).

Assistant Professor BURGE, Miss NEILL, Miss LEICHSENRING

*Prerequisite:* One year of university work, including 5 hours in botany, or zoology, and 5 hours in chemistry.

6. **Physiology of the Nervous System.**—The function of the principal motor and sensory tracts of the mammal. *I*; (3).

Assistant Professor BURGE, Miss NEILL, Miss LEICHSENRING

3. **Physiology of Respiration, Circulation, Muscle, and Nerve.** *II*; (3).

Assistant Professor BURGE, Miss NEILL, Miss LEICHSENRING

*Prerequisite:* Physiology 10 and 10a.

#### Courses for Advance Undergraduates and Graduates

5. **Physiology of Nutrition.** Utilization of food material by the body under various conditions in health and in disease. *II*; (2). Assistant Professor BURGE

*Prerequisite:* Junior standing; physiology 4 or equivalent.

9. **Physiology of the Special Senses.**—The normal function of the eye, optical defects; hearing, touch, pain, temperature, smell, and taste. *II*; (2).

Assistant Professor BURGE, Miss NEILL

*Prerequisite:* Junior standing. Physiology 6 or equivalent.

#### Courses for Graduates

100. **The Physiology of Secretion and Digestion.**—Absorption, metabolism, excretion, and glands of internal secretion. *Five times a week; I, or II; (1 to 2 units).*

Assistant Professor BURGE

101. **Journal Club.**—*Once a week; I, II; (1/4 unit).*

Members of staff

102. **Research.**—*Three times a week; I, II; (1 to 2 units).*

Members of the staff

### POLITICAL SCIENCE

(See also ECONOMICS, HISTORY, and SOCIOLOGY.)

JAMES WILFORD GARNER, Ph.D., *Professor*

JOHN ARCHIBALD FAIRLIE, Ph.D., *Professor*

JOHN MABRY MATHEWS,<sup>1</sup> Ph.D., *Associate Professor*

RUSSELL McCULLOCH STORY, Ph.D., *Assistant Professor*

PITMAN BENJAMIN POTTER, Ph.D., *Associate*

SAMUEL BENEDICT HEPBURN, A.M., *Assistant*

**Major:** Twenty hours from any courses offered by the department. A major may include three hours of constitutional history (History 4 and 14.)

**Minors:** Twenty hours, selected from two of the following subjects: history, economics, law, sociology, philosophy, and education.

#### Courses for Undergraduates

**NOTE.**—Courses 1 and 3 give a survey of national, state, and local government in the United States, and should be taken by students specializing in political science.

1. **American National Government.**—Historical development, organization, powers, limitations, and practical working of the national government of the United States. *I*; (3).

Professor GARNER, Assistant Professor STORY

*Prerequisite:* Thirty hours of university work.

3. **State and Local Government.**—Powers, obligations, and rights of the states in the Federal Union; formation and admission of states; development of state constitutions; organization of state and local government; political methods. (A continuation of Political Science 1; may be taken independently.) *II*; (3).

Professor GARNER, Assistant Professor STORY

*Prerequisite:* Thirty hours of university work.

**NOTE.**—Students may not take both 3 and 16 for more than a total of four hours' credit.

<sup>1</sup> On leave of absence.



**16. Government in Illinois.**—The commonwealth and the nation: constitutional development; organs of state government and their work; organization of the local governments and their functions; methods and agencies of popular control in public affairs; problems of the constitutional convention of 1920. *II*; (2). Professor FAIRLIE

*Prerequisite:* Thirty hours of university work.

**NOTE.**—Students may not take both 3 and 16 for more than a total of four hours' credit.

### Courses for Advanced Undergraduates and Graduates

**NOTE.**—Junior standing is required for admission to the following courses:

**4. Municipal Government.**—The growth of cities; their legal and social status; municipal organization in the United States, including mayor and council, commission, and city manager plans; municipal organization abroad; municipal functions. *I*; (3).

Assistant Professor STORY

*Prerequisite:* Senior standing, or junior standing and one of the following: (1) Three hours in either political science or sociology; (2) Five hours in either economics or history; (3) Major work in civil or in municipal and sanitary engineering.

**5. Constitutional Law of the United States.**—The judicial interpretation of the constitution. Judicial power to declare laws unconstitutional; separation of governmental powers; relation of state and national governments; national taxation; control of interstate commerce; protection of civil and political rights (due process of law); jurisdiction of the courts. *I*; (3). Dr. POTTER

*Prerequisite:* Political Science 1; junior standing.

**6. International Law.**—The development, nature, source, and present status of the law of nations; the doctrine of intervention; the laws of war and peace; the rights and duties of neutrals; the arbitration movement. Lectures; assigned readings; reports. *I*; (3). Professor GARNER

*Prerequisite:* Graduate or senior standing, or junior standing with six hours of history and five hours of political science.

**7. American Diplomacy.**—The genesis and present organization of the Department of State; the diplomatic service; the treaty making power; the methods and traditional principles of the foreign policy of the United States; diplomatic controversies with foreign powers; the United States as a world power. *II*; (3). Dr. POTTER

*Prerequisite:* Political Science 1 or History 3a-3b; junior standing.

**8. International Organization.**—History and forms of international polity on its institutional side; the origin, development and functions of the diplomatic and consular systems; alliances and leagues; international and administrative unions and commissions; international conferences and congresses; contemporary efforts at international organization. *I*; (2). Dr. POTTER

**9. Principles of Jurisprudence.**—The nature and sources of law; development and comparison of the Roman and English legal systems; English law in the United States; classification of law. *II*; (2). Professor FAIRLIE

*Prerequisite:* Political Science 1 or its equivalent; junior standing.

**11. Constitutional Aspects of Social and Industrial Problems.**—The nature of the police power; legislation concerning public health, order, and safety; constitutionality of labor legislation; control of combinations of capital; regulation of public service companies. *II*; (3). Dr. POTTER

*Prerequisite:* Six hours of political science or economics; junior standing.

**12. National Administration in the United States.**—Administrative powers of the President and Congress; administrative organization; the President's cabinet, the executive

departments, boards and commissions, and administrative services of the national government (including war agencies); judicial administration and the relation of the courts to the executive authorities. *I*; (3). Professor FAIRLIE

*Prerequisite:* Political Science 1; junior standing.

**14. Political Parties and Methods.**—Political parties and political methods, primarily in the United States; recent legislation on primary elections and corrupt practises; the party system. *I*; (2). Professor FAIRLIE

*Prerequisite:* One course in political science; junior standing.

**18. Legislation in the United States.**—Nature of the legislative power, constitutional limitations; organization, rules of procedure and practise of American legislative bodies; bill drafting; reference bureaus; criticism of bills and discussion of principles of legislation. *II*; (3). Assistant Professor STORV

*Prerequisite:* Six hours of political science; junior standing.

**22. Continental European Governments.**—The political systems of France, Germany, Austria-Hungary, Italy, and Switzerland; constitutional beginnings; political organization; methods of legislation and administration; constitutional guaranties for the protection of individual rights. *II*; (2). Professor GARNER

*Prerequisite:* Open to graduate students and seniors, who have had six hours in political science. History 20a-20b and Political Science 21 recommended.

**34. Municipal Problems.**—Municipal administration in the United States and Europe; organization; city planning and housing; public utilities; police and sanitary administration; municipal finances. Lectures; readings; special reports. *II*; (3). Professor FAIRLIE

*Prerequisite:* Open to graduate students, and to undergraduate students who have had Political Science 4, or Economics 1, or who have senior standing in the curriculum in municipal or highway engineering.

**36a-36b. Thesis Course.**—Research work for candidates for honors and other seniors. *I, II*; (2). *Time to be arranged.*

### Courses for Graduates

**101. History of Political Theories.**—Ancient, medieval, and modern political thought; political theories of Aristotle, Plato, Machiavelli, Hobbes, Locke, Montesquieu, and others. American political philosophy. *Twice a week; I; (1 unit).* Professor GARNER

**103. Seminar in Political Science and Public Law.**—Special problems; reports; discussions and criticism. The research work of candidates who are writing theses is under the direction of some instructor to whom they report frequently. *Once a week; I, II. Time to be arranged.* Members of the department

**106. International Law as Applied During the Late War.**—Causes of the war; treatment of alien enemies; contraband; blockades; transfers of flag; reprisals; military government of occupied territory; contributions and requisitions; rights and duties of neutrals. *Twice a week; II; (1 unit). Time to be arranged.* Professor GARNER

**112. Public Administration.**—Comparative studies in national and local administration; war administration. *Twice a week; II; (1 unit).* Professor FAIRLIE

### PSYCHOLOGY

MADISON BENTLEY, Ph.D., *Professor*

CHRISTIAN ALBAN RUCKMICH, Ph.D., *Associate Professor*

CARL RAHN, Ph.D., *Associate*

COLEMAN R GRIFFITH, A.B., *Assistant*

ELIZABETH J RUTHERFORD, A.B., *Assistant*

MARY ANN HENRY, A.B., *Assistant*

MYBERT E BROOM, *Student Assistant*

**Major:** Twenty hours chosen from courses announced by the department, except that six hours may be chosen from one or more of the following subjects: Philosophy 1, 2, 3, 4; Physics 1a-1b, 3a-3b, 7a-7b; Zoology 2, 5, 9, 15, and Animal Husbandry 30.

**Minors:** Twenty hours chosen from education, genetics, philosophy, physics, physiology, sociology, and zoology.

**1. Introduction to Psychology.**—The facts and laws of mind. Sensation and image, perception, attention, memory, emotion, action, and thought. Experimental methods and their results are illustrated in lecture by demonstrations. This course is preliminary to all other work of the department. Lectures: sectional meetings. *I*; (4).

Professor BENTLEY, Associate Professor RUCKMICH, Dr. RAHN, and assistants

*Prerequisite:* One year of university work.

**2. General Psychology.**—Mental inheritance, habit, custom, and fashion; the relations of psychology to the biological and social sciences; comparative and genetic psychology, and the psychology of the abnormal; applications of psychology to the arts and professions. *II*; (3).

Associate Professor RUCKMICH and assistants

*Prerequisite:* Psychology 1.

**3. Laboratory Practise (Elementary).**—Classical experiments in the fields of sensation, feeling, attention, and action. A drill course in scientific method. *I* or *II*; (2).

Associate Professor RUCKMICH, Dr. RAHN, and assistants

*Prerequisite:* Psychology 1.

**5. Comparative Psychology.**—Mind in animal forms; the psychological implications of organic evolution; a comparison of human and animal minds; criticism of current literature. (Recommended to students who intend to elect advanced courses in either animal psychology or in the study of behavior.) Lectures; laboratory. *I*; (2). Dr. RAHN

*Prerequisite:* Psychology 1 and one other course.

**6. Comparative Psychology (Advanced Laboratory).**—Individual studies in animal psychology. *II*; (2-4).<sup>1</sup>

Professor BENTLEY, Dr. RAHN

*Prerequisite:* Psychology 1 and 5.

**9. Physiological Psychology.**—Correlations between the structure and functions of the nervous system and the phenomena of human consciousness; a formulation of the problem of psychophysical relationship. Lectures; readings; discussions. *II*; (3).

Dr. RAHN

*Prerequisite:* Psychology 1 and 2, or 1 and 3, and laboratory training in one of the biological sciences.

**10. Translation of Psychological Treatise.**—Reading and systematic interpretation of standard works in foreign languages. *I*; (1-2).<sup>1</sup>

Professor BENTLEY

*Prerequisite:* Psychology 1, and consent of the instructor.

**12-13. Minor Problems (Advanced Laboratory).**—The application of methods suitable to new methods. *I, II*; (2-5).<sup>1</sup>

Professor BENTLEY, Associate Professor RUCKMICH, Dr. RAHN

*Prerequisite:* Psychology 1, 2, 3.

**14. Social Psychology.**—The social consciousness and the collective mind; analysis of the conditions upon which the social consciousness depends; perceptual, ideational, and

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., *not* 2-5, but 2, or 3, or 4, or 5.

emotional factors in the social consciousness; the genetic development of the collective mind as revealed in tradition and institutions. *I*; (3). Dr. RAHN

*Prerequisite:* Psychology 1 and one other course.

**15. The Psychological Basis of Music.**—Summary of experimental and theoretical literature on the origin of music, harmony, melody, rhythm, consonance, tonal quality; psychology of musical appreciation and performance; tests of musical aptitude. *II*; (2). Associate Professor RUCKMICH

*Prerequisite:* Psychology 1 and one other course.

**16. Genetic Psychology.**—Instinctive responses, formation of habits, and development of mental functions in the child from birth to maturity, with special reference to problems of education. *I*; (2). Associate Professor RUCKMICH

*Prerequisite:* Psychology 1 and one other course.

**20. Systematic Psychology.**—Psychological analysis and construction. Lectures and essays. *II*; (3). Professor BENTLEY

**21-22. Special Studies.**—Individual investigations, for advanced students, in the form of essay or of experiment. *I, II*; (3-5).<sup>1</sup>

Professor RUCKMICH, Dr. RAHN, Professor BENTLEY, Associate

*Prerequisite:* Psychology 12 or 13.

**24. Psychology of Religion.**—An analytic study of the religious consciousness and of religious behavior. *II*, (2). Dr. RAHN

*Prerequisite:* Psychology 1.

#### Courses for Graduates

**103. Research.**—Experimental and historical investigations. *I, II*; ( $\frac{1}{2}$  to 2 units).

Professor BENTLEY, Associate Professor RUCKMICH, Dr. RAHN

**105. Seminar.**—Discussion of current topics in their historical setting. *Once a week; I, II*; ( $\frac{1}{2}$ -1 unit). Professor BENTLEY

#### Summer Session Courses

#### Courses for Undergraduates

**S1. Introduction to Psychology.**—The facts and laws of mind. Sensation and image, perception, attention, memory, emotion, action, and thought. Lectures, illustrated with experimental demonstrations, and discussion. (3). Associate Professor RUCKMICH

*Prerequisite:* Sophomore standing or consent of the instructor.

*Equivalent:* Psychology 1 (in part).

**S3. Elementary Laboratory Practise.**—The standard experiments in the fields of sensation, feeling, attention, perception, memory and association, and action. A drill course in introspection under experimental control. ( $1\frac{1}{2}$ ). Mr. GRIFFITH

*Prerequisite:* Registration in S1 or previous instruction in its equivalent.

*Equivalent:* Psychology 3 (in part).

#### Courses for Advanced Undergraduates and Graduates

**S16. Genetic Psychology.**—Instinctive responses, formation of habits, and development of mental functions in the child from birth to maturity, with special reference to problems of education. Associate Professor RUCKMICH

*Prerequisite:* Psychology 1 and one other course.

*Equivalent:* Psychology 16.

<sup>1</sup> In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

**S21. Special Studies.**—Individual investigations, for advanced students, in the form of essay or experiment. (1-2). Associate Professor RUCKMICH, Mr. GRIFFITH

*Prerequisite:* The equivalent of Psychology 1 and one other course, preferably Psychology 3.

*Equivalent:* Psychology 21, or in part.

## PUBLIC SPEAKING

(See under ENGLISH LANGUAGE AND LITERATURE.)

## RAILWAY ADMINISTRATION

(See TRANSPORTATION.)

## RAILWAY ENGINEERING

JOHN McBEATH SNODGRASS, B.S., *Professor, Railway Mechanical Engineering, Acting Head of the Department*

EVERETT EDGAR KING, M.S., C.E., M.C.E., *Professor, Railway Civil Engineering*

JAMES THERON ROOD, Ph.D., *Professor, Railway Electrical Engineering*

HAROLD HOUGHTON DUNN, M.S., *Research Associate, Engineering Experiment Station*

Railway Civil Engineering—Courses 31-51.

Railway Electrical Engineering—Courses 60-68.

Railway Mechanical Engineering—Courses 1-10.

Common to all groups—Courses 25, 98, and 99.

Graduate Courses—Courses 100-110.

**2. Locomotive Design.**—Calculations and designs of engine and boiler details; current standards and proportions. Drafting room systems. *I*; (3). Professor SNODGRASS

*Prerequisite:* Mechanical Engineering 12, 62; Railway Engineering 6.

**5. Railway Laboratory.**—Locomotive testing; experimental work with electric and steam railway test cars, brakeshoe testing machine, drop testing machine, and air-brake apparatus. *I*; (3). Mr. DUNN

*Prerequisite:* Railway Engineering 6; Mechanical Engineering 12, 62.

**6. Locomotives.**—Mechanics; performance; design. *II*; (4). Professor SNODGRASS

*Prerequisite:* Theoretical and Applied Mechanics 21, 29; registration in Mechanical Engineering 12 and 62.

**7. Advanced Design.**—Problems in locomotive and car design. *II*; (3).

Professor SNODGRASS

*Prerequisite:* Railway Engineering 2.

**8. Railway Laboratory.**—Investigation of train resistance and locomotive tractive effort by the use of the railway test car. Analysis of the results and their application to the problems of tonnage rating. *II*; (2). Mr. DUNN

*Prerequisite:* Railway Engineering 5.

**9-10. Seminar.**—Discussion of current topics and review of railway journals; assigned topics and reports. *I, II*. (1). Professor SNODGRASS

*Prerequisite:* Open to seniors in railway courses only.

**25. Railway Development.**—History and organization of steam and electric railways; statistics; costs. *I*; (3). Professor KING, Professor ROOD, Professor SNODGRASS

*Prerequisite:* Open to juniors in railway courses only.

**31. Railway Yards and Terminals.**—Theory of design; arrangement of grades in gravity yards; problems. *II*; (3). Professor KING

*Prerequisite:* Civil Engineering 51.

**32. Railway Construction.**—Design of railway structures; cost analysis; estimates of cost, complete working drawings, contracts and specifications for assigned problems in design. *I*; (3). Professor KING

*Prerequisite:* Civil Engineering 51.

**33. Economic Theory of Railway Location.**—Influence of volume of traffic, alignment, and gradient on operating expenses; locomotive and grade problems; relocation of existing lines. *II*; (4). Professor KING

*Prerequisite:* Civil Engineering 51; Theoretical and Applied Mechanics 20, 21.

**34. Railway Maintenance.**—Systems; track design; standards and charts; classification of accounts; measuring efficiency; emergency organization. *II*; (4). Professor KING

*Prerequisite:* Civil Engineering 51.

**35. Railway Signaling.**—Block and route signaling; systems in use; history; railway accidents. *I*; (1). Professor KING

*Prerequisite:* Civil Engineering 51.

**50-51. Seminar.**—Current topics; review of railway journals; assigned topics and reports. *I, II*; (1). Professor KING

*Prerequisite:* Open to seniors in railway courses only.

**60. Electric Railway Principles.**—Mechanics of traction; train resistance; braking of electric railway trains; method of solving fundamental electric railway problems. *II*; (2). Professor ROOD

*Prerequisite:* Theoretical and Applied Mechanics 25; Electrical Engineering 25, 75.

**61. Electric Traction.**—Selection and operation of equipment. (A condensed course for students in railway mechanical engineering or other engineering departments.) *II*; (3). Professor ROOD

*Prerequisite:* Theoretical and Applied Mechanics 21 or 25; Electrical Engineering 11, 61, or 25, 75.

**62. Electric Railway Laboratory.**—Tests of electrical machinery used in railway service. *I*; (2). Professor ROOD

*Prerequisite:* Railway Engineering 60.

**63. Electric Railway Laboratory.**—(A continuation of Railway Engineering 62.) Tests with the electric test car and the steam dynamometer car to determine train resistance and power consumption. *II*; (2). Professor ROOD

*Prerequisite:* Railway Engineering 62, 64.

**64. Electric Railway Practise.**—Types of equipment; energy consumption; methods of distribution. *I*; (3). Professor ROOD

*Prerequisite:* Theoretical and Applied Mechanics 25; Electrical Engineering 26, 76; Railway Engineering 60.

**65. Electric Railway Economics.**—Location and operation; choice of systems; location of power plant and sub-stations; calculation of transmission and distribution of circuits; maintenance of way and of equipment; electrification of steam roads. *II*; (4). Professor ROOD

*Prerequisite:* Railway Engineering 64.

**66. Electric Railway Machinery.**—Theory and characteristics of electrical machinery used for railway service, of transmission and distribution lines. *I*; (3). Professor ROOD

*Prerequisite:* Railway Engineering 60; Electrical Engineering 26, 76.

**67-68. Seminar.**—Current topics; review of railway journals; assigned topics and reports. *I, II*; (1). Professor ROOD

*Prerequisite:* Open to seniors in railway courses only.

98. **Thesis.**—Independent solution of some railway problem or the investigation of some subject. The thesis may consist of an original design or of an original experimental investigation, or may be the analysis and discussion of facts already in existence. *II; (3).*

Professor KING, Professor ROOD, Professor SNODGRASS

99. **Inspection Trip.**—*I; (no credit).*

*Prerequisite:* Senior standing.

### Courses for Graduates

Entrance on graduate work in railway engineering presupposes the full undergraduate course in that subject.

102. **Locomotive Design.**—Modern practise concerning steam pressure, compounding, superheating. *Once a week; I, II; (1 unit).*

Professor SNODGRASS

106. **Locomotive Operation.**—Train resistance and tractive effort; tonnage ratings. *Once a week; I, II; (1 unit).*

Professor SNODGRASS

108. **Electric Railway Practise.**—The design, selection, operation, and maintenance of equipment; central station, substation, rolling stock, and line equipment. *Once a week; I, II; (1 unit).*

Professor ROOD

110. **Railway Location.**—The effect of location on earning capacity; problems in original location, in the relocation and reduction of grades of existing lines. *I, II; (1 unit).*

Professor KING

### ROMANCE LANGUAGES AND LITERATURE

KENNETH MCKENZIE, Ph.D., *Professor, Head of Department*

THOMAS EDWARD OLIVER, Ph.D., *Professor*

JOHN DRISCOLL FITZ-GERALD, Ph. D., *Professor of Spanish*

DAVID HOBART CARNAHAN, Ph.D., *Professor*

ARTHUR ROMEYN SEYMOUR, Ph.D., *Associate, Assistant Dean of Foreign Students (First Semester)*

JOHN VAN HORNE, Ph.D., *Associate*

DAISY LUANA BLAISDELL, A.M., *Instructor*

ARTHUR HAMILTON, Ph.D., *Instructor*

RENE LEVESQUE, Lic. es L., *Instructor*

CHARLES SERAPHIN CARRY, *Assistant*

LOUIS ALLEN, A.M., *Assistant*

RAFAEL ARCANGEL SOTO, B.S., A.M., *Assistant*

MANUEL LEON LOPEZ, A.M., *Assistant*

JANE COULSON WATSON, A.M., *Assistant*

ELISA CURTIS, A.B., *Assistant*

MILDRED DIMMICK, A.B., *Assistant*

GERTRUDE DELE GAGER, A.B., *Assistant*

JOHN ARMSTRONG SELLARDS, A.B., *Assistant (First Semester)*

JULIETTE BOVIN, *Assistant*

MARIE LOUISE LEAUTIER, B. es L., *Assistant*

SYLVIA M VOLLMAR, Ped.M., A.B., *Assistant*

CORDELIA REED, A.M., *Assistant*

RUTH LEWMAN, A.B., *Assistant*

ADELAIDE ELENA SMITHERS,<sup>1</sup> A.B., *Assistant*

<sup>1</sup>Second Semester.

ELISABETH REINHARDT OLIVER, *Assistant*  
 ANNETTE BARON, A.B., *Scholar Assistant*  
 JEANNE SEIGNEUR, A.B., *Scholar Assistant*  
 ERNEST ANASTASSIADES, *Student Assistant*  
 FRANCIS MONTAU, *Student Assistant*

## FRENCH

**Major:** Twenty hours of French, exclusive of French 1a, 1b, 2a, 6a, 6b, 6c.

**Minors:** Twenty hours in not more than two of the following subjects: comparative literature, English (excluding Rhetoric 1-2), German, Greek, history, Italian, Latin, Spanish; provided that at least 8 hours must be taken in any subject chosen.

## SPANISH

**Major:** Twenty hours of Spanish, exclusive of Spanish 1a, 1b.

**Minors:** Twenty hours in not more than two of the following subjects: comparative literature, English (excluding Rhetoric 1-2), French, German, Greek, history, Italian, Latin; provided that at least 8 hours must be taken in any subject chosen.

## ROMANCE LANGUAGES

**Major:** Twenty hours in some one Romance language, exclusive of French 1a, 1b, 2a, 6a, 6b, 6c; Spanish 1a, 1b.

**Minors:** Twenty hours in not more than two of the following subjects: comparative literature, English (excluding Rhetoric 1-2), French, German, Greek, history, Italian, Latin, Spanish; provided that at least 12 hours must be taken in some one Romance language other than the language of the Major, and exclusive of French 1a, 6a, 6b, 6c; Italian 1a, Spanish 1a; and provided that not less than 8 hours must be taken in any subject chosen.

## A. FRENCH

## Courses for Undergraduates

**1a-1b. Elementary Course.**—Grammar; pronunciation; reading of modern authors; composition; conversation. *I* or *II*; (4).

Professor CARNAHAN, Miss BLAISDELL, Mr. LEVESQUE, Mr. CARRY, Mr. SOTO, Miss DIMMICK, Miss GAGER, Mr. SELLARDS, Miss BOUIN, Miss LEAUTIER, Miss REED, Mrs. OLIVER, Mr. ANASTASSIADES.

*Prerequisite:* Not open to students who have had high-school work in this language.

**2a-2b. Modern Prose, Poetry, and Drama.**—Rapid reading of modern authors; syntax and composition. *I, II*; (4).

Professor OLIVER, Miss BLAISDELL, Dr. HAMILTON, Mr. ALLEN, Miss DIMMICK, Mr. SELLARDS, Miss BOUIN.

*Prerequisite:* French 1a-1b, or the equivalent.

**5a-5b. Introduction to French Literature.**—Authors of the last three centuries. Composition; review of the grammar. *I, II*; (3).

Professor OLIVER, Professor FITZ-GERALD, Professor CARNAHAN

*Prerequisite:* French 2a-2b, or the equivalent.

**6a-6b. Second-Year Conversation.**—Three hours weekly of class-room exercise, without requirement of outside study. (Does not count toward a major in French or in Romance languages.) *I, II*; (1).

Mr. LEVESQUE, Miss BARON

*Prerequisite:* French 1a-1b (with a grade of at least B) or the equivalent.



**7a-7b. Intermediate Composition and Conversation.**—Conducted entirely in French, giving facility in idiomatic expression in writing and speaking. Reading; themes; talks on France and French life. *I, II; (2).* Mr. CARRY, Miss LEAUTIER, Miss SEIGNEUR  
*Prerequisite:* French 2a-2b, or 6a-6b.

**NOTE.**—Required of those who are given the recommendation of the department to teach French.

**8a-8b. Advanced Composition and Conversation.**—French life and literature. Idiomatic construction; syntax; themes. Conducted entirely in French. *I, II; (2).*

Mr. LEVESQUE

*Prerequisite:* French 7a-7b.

**25. The Teaching of French.**—Methods of teaching French; discussion of class-room problems. *I; (2).* Professor CARNAHAN

*Prerequisite:* Twenty-two hours' credit in French or sixteen hours' credit in French plus twenty-two hours of Spanish.

**28a-28b. Senior Thesis.**—For candidates for honors in French, open to other seniors. *I, II; (1).* Professor MCKENZIE and other members of the department

### Courses for Advanced Undergraduates and Graduates

*Prerequisite for the following courses:* French 5a-5b or the equivalent, and junior standing; or senior standing and the consent of the instructor.

**10a-10b. Survey of French Literature.**—Special periods and authors. The main currents of French literature from the beginning to the present time. *I, II; (3).*

Professor CARNAHAN

**24a-24b. Seventeenth and Eighteenth Century Drama.**—Corneille, Racine, Moliere, Voltaire, Marivaux, Sedaine, Beaumarchais. Lectures and interpretation. *I, II; (2).*

Professor OLIVER

**17a-17b. Nineteenth Century Drama.**—The important French dramatists and dramatic critics from 1827 to the present time. *I, II; (2).*

Professor MCKENZIE

**42a-42b. The French Novel.**—From 1850 to the present time. Lectures, reports, and collateral reading. *I, II; (2).*

Dr. HAMILTON

### Courses for Graduates

Before entering upon the study of Romance languages as a major for the degree of A.M., the candidate must have had at least (a) three years of college work in one Romance language, and a reading knowledge, satisfactory to the department, of another Romance language; or (b) two years of college work in each of two Romance languages. In either case a reading knowledge of German is highly desirable. Before being accepted as a recognized candidate for the degree of Ph.D., he must have had in addition satisfactory training in Latin, and must be able to read ordinary German prose.

Before entering on the study of Romance languages as a first or second minor for an advanced degree, the candidate must have had at least two years of college work in the language desired.

**102. Old French Lyric and Prose Literature.**—Interpretation of the earlier, old French didactic, chronicle, and lyric writers. *Twice a week; I, II; (1 unit).*

Professor OLIVER

**103. Seventeenth Century Prose Writers.**—French society, culture, and prose literature of the seventeenth century; the great writers; the formation of classic ideals. *Once a week; I, II; (½ unit).*

Professor OLIVER

**127. French Romanticism.**—Origin and development of the Romantic movement in France. *Twice a week; I, II; (1 unit).*

Professor CARNAHAN

**B. ITALIAN****Courses for Undergraduates**

- 1a-1b. **Elementary Course.**—Grammar; composition; conversation; reading. *I, II;*  
 (3). Dr. VAN HORNE  
*Prerequisite:* Not open to students who have had high-school work in this language.

**Course for Advanced Undergraduates and Graduates**

- 2a-2b. **Italian Literature.**—Italian writers of the nineteenth century. Composition;  
 conversation. *I, II;* (2). Professor MCKENZIE  
*Prerequisite:* A reading knowledge of Italian.

**Courses for Graduates**

140. **Italian Literature of the Thirteenth and Fourteenth Centuries.**—Dante, Petrarch,  
 Boccaccio. *Twice a week; I;* (1 unit). *Time to be arranged.* Professor MCKENZIE  
 146. **Modern Italian Literature.**—Italian writers of the nineteenth century. *Twice*  
*a week; II;* (1 unit). Professor MCKENZIE

**C. SPANISH****Courses for Undergraduates**

- 1a-1b. **Elementary Course.**—Grammar; pronunciation; reading; composition;  
 conversation. *I or II;* (4).

Dr. SEYMOUR, Dr. VAN HORNE, Dr. HAMILTON, Mr. CARRY, Mr. ALLEN, Mr. SOTO,  
 Mr. LOPEZ, Miss WATSON, Miss CURTIS, Miss GAGER, Mr. SELLARDS, Miss VOLLMER, Miss  
 REED, Miss LEWMAN, Mr. MONTAU.

*Prerequisite:* Not open to students who had high-school work in this language.

- 2a-2b. **Modern Spanish.**—Rapid reading; review of grammar; conversation on topics  
 of everyday life; composition. *I, II;* (4).

Mr. SOTO, Miss WATSON, Miss CURTIS, Miss VOLLMER  
*Prerequisite:* Spanish 1a-1b, or an equivalent demonstrated by examination.

- 3a-3b. **Introduction to Spanish Literature.**—Reading of modern authors, and of the  
 more important writers of the seventeenth century. *I, II;* (3). Miss VOLLMER

*Prerequisite:* Spanish 2a-2b, or an equivalent demonstrated by examination.

- 7a-7b. **Intermediate Composition and Conversation.**—Conducted entirely in Spanish,  
 giving facility in idiomatic expression in writing and speaking. Spanish-American life and  
 customs are especially emphasized. *I, II;* (2). Dr. SEYMOUR and ———

*Prerequisite:* Spanish 2a-2b.

25. **The Teaching of Spanish.**—Methods; discussions of classroom problems. *II;* (2).

*Prerequisite:* Twenty-two hours' credit in Spanish, or sixteen hours' credit in Spanish  
 plus twenty-two hours of French.

**Courses for Advanced Undergraduates and Graduates**

*Prerequisite for the following courses:* Spanish 3a-3b, or the permission of the instructor.

- 11a-11b. **The Spanish Drama of the Sixteenth and Seventeenth Centuries.**—Earlier  
 dramatists; representative plays of Lope de Vega, Calderón, Ruiz de Alarcón and Tirso  
 de Molina. Reports on outside reading. *I, II;* (2). Dr. SEYMOUR and ———

- 17a-17b. **The Spanish Drama of the Nineteenth Century.**—Representative plays of  
 of contemporary Spanish dramatists. Reports on outside reading. *I, II;* (2).

Dr. VAN HORNE

Courses for Graduates

**132. The Novela of the Golden Age.**—Political and social conditions in Spain from 1560 to 1700; the kinds of prose fiction produced in this period; *Don Quixote* and the *Novelas Exemplares* of Cervantes. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor FITZ-GERALD

**135. The Modern Novel in Spain.**—Development of the modern novel in Spain from the middle of the 19th Century to the present time. Development of the novel in Spain, France, and Italy. *Twice a week; I; (1 unit). Time to be arranged.*

Dr. SEYMOUR

D. ROMANCE PHILOLOGY

Courses for Graduates

**171. Introduction to Romance Philology.**—Historical phonology and morphology of the Romance languages. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor FITZ-GERALD

**185. Oldest Monuments of the Spanish Language.**—Origins of Spanish poetry. Historical grammar. *Twice a week; I, II; (1 unit). Time to be arranged.*

Professor FITZ-GERALD

**195. Seminar.**—Research work in preparation for theses. *I, II; (1 unit).*

Professor MCKENZIE and other members of the department

Summer Session Courses

Methods of Teaching

**French S25. Methods of Teaching French.**—Discussion of practical problems; practical phonetics.

Professor CARNAHAN

**Spanish S25. Methods of Teaching Spanish.**—Discussion of practical problems; practical phonetics. (1).

Professor FITZ-GERALD

French

**S1a. Elementary Course.**—Pronunciation, grammar, reading of easy prose. (4).

Dr. SHULTERS

(Pronunciation class without credit).

Mr. CARRY

*Equivalent:* French 1a, or one year of high school French.

**S2a. Modern Prose and Drama.**—Rapid reading of modern authors; syntax and composition. (2).

Professor CARNAHAN

*Prerequisite:* One year of college French, or the consent of the instructor.

Courses for Graduates

A cycle of four courses, dealing with French Drama and prose of the seventeenth, eighteenth, and nineteenth centuries, will be given in four successive summer sessions.

**S121. Nineteenth Century French Drama.**—Lectures and reading. (1).

Professor CARNAHAN

*Prerequisite:* Three years of college French, or the consent of the instructor.

Spanish

**S1a. Elementary Course.**—Pronunciation, grammar, reading of easy prose. (4).

Mr. LOPEZ

(Pronunciation class, without credit).

*Equivalent:* Spanish 1a, or one year of high-school Spanish.

**S2a. Modern Spanish.**—Rapid reading; review of grammar; composition. (2).

Professor FITZ-GERALD

*Prerequisite:* One year of college Spanish, or the consent of the instructor.

### Courses for Graduates

A cycle of four courses, dealing with Spanish Drama and prose in the seventeenth and nineteenth centuries, will be given in four successive summer sessions.

**S121. Seventeenth Century Spanish Prose (Novelo of the Golden Age.**—Lectures and readings. (1 unit).

Professor FITZ-GERALD

*Prerequisite:* Three years of college Spanish, or the consent of the instructor.

## SCANDINAVIAN

(See ENGLISH LANGUAGE AND LITERATURE.)

## THE SOCIAL SCIENCES

(See ECONOMICS, HISTORY, POLITICAL SCIENCE, and SOCIOLOGY.)

## SOCIOLOGY

EDWARD CARY HAYES, Ph.D., *Professor*

EDWIN HARDIN SUTHERLAND, Ph.D., *Assistant Professor*

ELLERY F REED, A.M., *Assistant*

*Cooperating:*

GORDON WATKINS, Ph.D., *Assistant Professor of Economics*

**Major:** 20 hours from any courses offered in the department.

**Minors:** 20 hours chosen from two or three of the following subjects: History, economics, political science, philosophy, and psychology.

### Courses for Undergraduates

1. **The Principles of Sociology and Their Application to Present Problems.**—I or II; (3).

Professor HAYES, Assistant Professor SUTHERLAND, Mr. REED

*Prerequisite:* Junior standing. Sophomores who have had Economics 1 or 2 will be admitted to section G. No seniors received in that section.

7. **The Social Problems of the Rural Community.**—II; (2).

Professor HAYES, Mr. REED

*Prerequisite:* Junior standing.

### Courses for Advanced Undergraduates and Graduates

3. **Social Evolution.**—Antiquity of man, racial divisions. Modes of social activity among savage, barbarous, and civilized people; family organization, practical arts, economic wants and institutions, origins of government and law, codes of morality, religions; induction from such facts, as to the theory of social evolution and the method of progress. II; (3).

Professor HAYES

*Prerequisite:* Sociology 1.

8. **Charities.**—Evolution of modern organized philanthropy, public and private; causes and prevention of poverty; organization and management of charitable institutions. I; (3).

Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1 or Economics 1; junior standing.

**9. Criminology.**—Nature, causes, and treatment of the criminal; evolution of modern methods of criminal procedure and penology; recent experiments and tendencies. *II*; (3).  
Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1; open without other prerequisite to pre-legal students who have senior standing.

**10. Population.**—Theories and policies of population; Malthus' Principle and its critics; problems in the population of the United States; immigration, race-mixture, conditions affecting public health, death-rate, birth-rate, "race-suicide," marriage, divorce; selective influences at work on the "population type." *I*; (3).  
Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1 or Economics 1; senior standing.

**12a-12b. Labor Problems.**—The same as Economics 12a-12b. *I, II*; (3).  
Assistant Professor WATKINS

*Prerequisite:* Senior standing, Economics 1, and three additional hours in economics for which Economics 1 is a prerequisite; or senior standing, and Economics 1, for students whose major subject is sociology.

**14. Statistics and Methods of Research.**—Methods of concrete investigation and research, principles of statistics and their application to the data furnished by official publications and special investigations; the statistical method applied to both theoretical and practical problems of sociology. *II*; (3).  
Assistant Professor SUTHERLAND

*Prerequisite:* Sociology 1.

### Courses for Graduates

Preparation for graduate work in sociology must include the equivalent of twelve semester hours in the social sciences, of which at least three must be in sociology, and three in the principles of economics. The remainder may be in any combination of these two subjects, or of history and political science.

**100. Bases of Social Theory.**—Systematic presentation and critical discussions. *Twice a week; I; (½ to 1 unit).*  
Professor HAYES

**102. The Development of Sociology.**—Reading of sociological works; discussions; lectures. *Twice a week; I, II; (1 unit).*  
Professor HAYES

**150. Seminar.**—Detection and statement of problems. Preparation of theses. *Once a week; I, II; (1 or 2 units).*  
Professor HAYES

### Summer Session Courses

Professor SUTHERLAND, Mr. REUTER

### Courses for Undergraduates

**S1. The Principles of Sociology and Their Application to Present Problems.**—(3).  
Professor SUTHERLAND

*Prerequisite:* Junior standing, or equivalent.

*Equivalent:* Sociology 1.

**S2. Social Psychology.**—Current tendencies in the psychological interpretation of social life; ways in which the sentiments, opinions, and conduct of the members of society are shaped. (3).  
Mr. REUTER

*Prerequisite:* Sociology 1.

*Equivalent:* Sociology 2.

### Courses for Advanced Undergraduates and Graduates

**S8. Charities.**—History of charity, the development and character of modern methods, causes and prevention of dependence, constructive philanthropy. (2).

Professor SUTHERLAND

*Prerequisite:* Consent of instructor.

*Equivalent:* Sociology 8 (in part).

**S15. The Family.**—Historical aspects of the family; its role in modern society, and problems of social policy arising therefrom. (2).

Mr. REUTER

*Prerequisite:* Consent of Instructor.

*Equivalent:* Sociology 15 (in part).

### TRANSPORTATION

ERNEST RITSON DEWSNUP,<sup>1</sup> A.M., *Professor*

GEORGE BURR McMILLEN, A.M., *Instructor*

### Courses for Undergraduates

**7. Railway Organization.**—The departments of the American railway organization and their functions. *I*; (2).

*Prerequisite:* Junior standing, or sophomore standing with Accountancy 1.

**8. Elements of Railway Working.**—An outline of the routine work and problems of the railways; preliminary to the more advanced courses. *II*; (2).

*Prerequisite:* Transportation 7.

**35a-35b. Thesis.**—Investigation of problems in railway administration. Preliminary outline must be filed with the department by the second Friday in October, extended outline and bibliography by the second Friday in November, and a first draft of at least fifteen pages of the thesis by the second Friday in January. *I, II*; (2).

*Prerequisite:* Full senior standing in railway administration or railway transportation.

### Courses for Advanced Undergraduates and Graduates.

**1. Transportation System of the United States.**—Its development and its relation to the public. *I*; (3).

*Prerequisite:* Junior standing with credit in Economics 1 or 2.

**2. Transportation Policy in Europe and in the United States.**—The regulation of transportation, particularly the railways, in the United States and in Europe. *II*; (3).

*Prerequisite:* Transportation 1.

**12. Freight Shipment.**—Conditions governing the shipment of freight by rail; routing of freight; freight claims; Commission procedure. *II*; (2).

*Prerequisite:* Junior standing.

**[13<sup>2</sup>. Railway Traffic Administration.**—Freight and passenger traffic management. *I*; (3). Not given, 1919-20.

*Prerequisite:* Transportation 7 and 8, or with the permission of the instructor Transportation 12 along with credit or concurrent registration in Transportation 1.]

**[17<sup>2</sup>. Railway Terminal Management.**—Freight and passenger terminals. *I*; (3). Not given, 1919-20.]

*Prerequisite:* Transportation 7 and 8.]

<sup>1</sup> Resigned, February, 1920.

<sup>2</sup> For readjustments in these courses, see Announcement of Courses for September, 1920.

[22.<sup>2</sup> **Railway Train Service.**—The standard code of train rules; train dispatching; block-signaling; time-table construction. (An inspection trip to Chicago of four days' duration forms part of this course, Monday to Thursday, inclusive, preceding the Easter recess; expenses about \$18.00). *I*; (3). Not given, 1919–20.

*Prerequisite:* Transportation 7 and 8.]

[26.<sup>2</sup> **The Economics of Railway Construction and Maintenance.**—*II*; (3). Not given, 1919–20.

*Prerequisite:* Transportation 7 and 8.]

### Courses for Graduates

[101. **Railway Rate Policy.**—*Twice a week; I*; (1 unit). Not given, 1919–20].

[102. **The Fiscal Administration of American Railways.**—*Twice a week; II*; (1 unit). Not given, 1919–20.]

[103. **Foreign Railway Administration.**—*Twice a week; I*; (1 unit). Not given, 1919–20.]

[104b. **Standards of Railway Operation.**—The work of this course requires a cycle of three years for its completion, tho credit will be given for each semester's work. 104a deals with organization and maintenance of standards, 104c with passenger service. *Once a week or, at the option of the instructor, twice a week; II*; (1 unit). Not given, 1919–20.]

### Summer Session Course

#### Course for Undergraduates

**S1. Transportation System of the United States.**—The development and economic problems of railway and other transportation in the United States. (3).

Assistant Professor WESTON

*Prerequisite:* Economics 1, junior standing.

*Equivalent:* Transportation 1.

### ZOOLOGY

HENRY BALDWIN WARD, Ph.D., *Professor*

JOHN STERLING KINGSLEY, D.Sc., *Professor*

FRANK SMITH, A.M., *Professor*

CHARLES ZELENY, Ph.D., *Professor*

VICTOR ERNEST SHELFORD, Ph.D., *Assistant Professor*

HARLEY JONES VAN CLEAVE, Ph.D., *Assistant Professor*

ROKUSABURO KUDO, D.Ag.Sc., *Instructor*

GEORGE MARSH HIGGINS, Ph.D., *Instructor*

EZRA CLARENCE HARRAH, A.M., *Research Assistant*

DAVID HIRAM THOMPSON, B.S., *Research Assistant*

FLORENCE HAGUE, A.M., *Assistant*

LYELL JAY THOMAS, B.S., *Assistant*

MYRON THOMAS TOWNSEND, B.S., *Assistant*

CLAUDE LEIST, A.B., *Assistant*

ANNA MARY COLLINS,<sup>1</sup> A.B., *Graduate Assistant*

\_\_\_\_\_, *Graduate Assistant*

**Major:** 20 hours from any courses offered in the department, excluding Zoology 1, and including Zoology 3, 4, and 5.

<sup>1</sup> Resigned Oct. 1, 1919.

<sup>2</sup> For readjustments in these courses, see Announcement of Courses for September, 1920.

**Minors:** 20 hours chosen from two or three of the following subjects: animal husbandry (Animal Husbandry 30), bacteriology, botany, chemistry, entomology, physics, physiology, psychology, paleontology, and physiography.

Courses 1 and 2 constitute an introduction to later work in zoology. In the second year, a student may choose as a line of work either morphological, experimental, ecological, faunistic, or systematic courses. The courses on microscopical technic (3), heredity and evolution (5), and current investigations (20) are of value for all students. Medical students should take courses 3 and 6 the second year. Those preparing to teach zoology in the high school should take invertebrate morphology (4), field zoology (16, 17), and ecology (9, 11), and a course in general entomology.

### Courses for Undergraduates

**1. General Zoology.**—Animal biology; principles of structure; function, interrelations, origin, and development of animal life; the simpler and best-established generalizations in zoological theory. Lectures; laboratory; quiz work. *I or II*; (5).

Professor WARD, Assistant Professors SHELFORD and VAN CLEAVE, Dr. KUDO, Dr. HIGGINS, and Assistants.

**2. Vertebrate Zoology and Comparative Anatomy.**—Classification of the Chordata; early stages of vertebrate embryology; anatomy of systems of organs considered with regard to function, ontogeny, and evolution; dissection of types of Vertebrata. Lectures; laboratory; quiz work. *II*; (5). Professor KINGSLEY, Dr. HIGGINS, and Assistants

*Prerequisite:* Zoology 1.

**4. Invertebrate Morphology.**—Morphology of a series of invertebrates; invertebrate structure and development; the application of biological principles. Laboratory; lectures; demonstrations. *II*; (3). Assistant Professor VAN CLEAVE

*Prerequisite:* Zoology 1.

**5. Heredity and Evolution.**—(a) The facts of heredity and present views regarding them. (b) The proofs of organic evolution with a discussion of the probable factors involved in the process. Lectures; demonstrations; assigned reading. *II*; (2).

Professor ZELENY

*Prerequisite:* One year of university work.

**3. Microscopical Technic and Vertebrate Embryology.**—Theory and practise of microscopical technic; fixation, staining, imbedding, section cutting and mounting material for use in the course; study of the early stages of vertebrate embryos. Lectures, laboratory, quizzes. *I*; (3). Professor KINGSLEY

*Prerequisite:* Zoology 1, 2.

**6. Vertebrate Organogeny.**—Development of the organs of the vertebrate body; studies of the embryos of dogfish, chick, and pig. Lectures; assigned readings; laboratory work. (Continuation of Zoology 3). *II*; (3). Professor KINGSLEY

*Prerequisite:* Zoology 1, 2, 3.

**9. Animal Ecology.**—The relations of animals to their natural environments. Field and experimental work; lectures on the natural history of mammals, birds, reptiles, and amphibians. *II*; (3). Assistant Professor SHELFORD

*Prerequisite:* One year of zoology or one and one-half years of university work, including Zoology 1.

**16. Economic Ornithology.**—Common birds of the vicinity. Identification; food relations; seasonal distribution; migration activities. Economic importance of birds and of their conservation. Lectures; assigned reading; two field trips per week during April and May in two two-hour periods as given in the schedule, or one four-hour trip on Saturday forenoon. *II*; (2). Professor SMITH and assistants



**17. Field Zoology.**—Collection, preservation, and identification of common representatives of the lower vertebrates and of the various groups of land and fresh-water invertebrates (excluding insects) in the vicinity; identification work on living and preserved material from larger rivers and lakes; observations on the habits and life histories of selected forms. Field and laboratory work; assigned readings. *I*; (4).

Professor SMITH and assistant

*Prerequisite:* One year in zoology.

**18. Advanced Field Zoology.**—(A continuation of zoology 17). Taxonomic or distributional problems in connection with the local fauna. *II*; (3 to 5).<sup>1</sup>

Professor SMITH

*Prerequisite:* Zoology 17.

**19a-19b. Advanced Ornithology.**—(Continuation of Zoology 16.) Systematic and field work; economic and technical literature. *I, II*; (2 or 3).<sup>1</sup> *Time to be arranged.*

Professor SMITH

*Prerequisite:* Zoology 16 or equivalent.

### Courses for Advanced Undergraduates and Graduates

**11. Experimental Ecology and Geography.**—The physiology of environmental relations; analysis of behavior. World and regional aspects of behavior and ecology; animal distribution as related to climate and vegetation. *I*; (2 or 4).<sup>1</sup>

Assistant Professor SHELFORD

*Prerequisite:* One year of zoology and senior standing.

**25-26. Experimental Zoology.**—Experimental embryology; regeneration; heredity; variation; evolution. Laboratory; assigned reading; conference. *I, II*; (5).

Professor ZELENY

*Prerequisite:* Two years of university work, including one year in zoological courses.

**63. Ontogeny of Vertebrates.**—Comparative studies of germ layers and early organogeny, with plastic and graphic reconstructions. Based chiefly upon Elasmobranchs and Amphibians. Lectures, assigned readings, and laboratory work. (Open to seniors and graduates.) *I*; (2 or 4).<sup>1</sup> *Time to be arranged.*

Professor KINGSLEY

**66. Ontogeny of Vertebrates.**—Studies of the development of selected systems of organs. Lectures, assigned readings, and laboratory work. Open to seniors and graduates. *II*; (2 or 4).<sup>1</sup> *Time to be arranged.*

Professor KINGSLEY

**22-23. Morphology of Vertebrates.**—Detailed studies of systems of organs from the comparative standpoint. Lectures; laboratory work; assigned readings. *I, II*; (2). *Time to be arranged.*

Professor KINGSLEY

*Prerequisite:* Zoology 1, 2, 3, 6.

**21a-21b. Introduction to Zoological Research.**—Morphology, life history, or reciprocal relations of invertebrates, especially parasites of man and other animals. Laboratory; conferences; assigned reading. *I, II*; (2-5).<sup>1</sup>

Professor WARD

*Prerequisite:* One year in zoological courses, and senior standing.

**20a-20b. Current Investigation.**—A critical analysis of the results of recent zoological investigations. (Open to all students of zoology: should be taken by those intending to graduate with a thesis). *I, II*; (1).

Professor ZELENY

*Prerequisite:* Three years of university work, including one year in zoology.

**8a-8b. Thesis Investigation.**—Individual work on assigned topics. *I, II*; (5). *Time to be arranged.*

Members of the department

*Prerequisite:* Two years of zoology.

<sup>1</sup>In registering for a course with variable credit hours, a student must put down on his study-list, not the possible hours, as shown here, but the number of hours for which he intends to take the course; e. g., not 2-5, but 2, or 3, or 4, or 5.

## Courses for Graduates

Students entering on graduate study in the department of zoology should have had two years of undergraduate work in the subject. When chosen as a minor the courses listed for graduates and undergraduates must be preceded by at least one full year's undergraduate work in zoology. Work done at other institutions will be evaluated on conference with the head of the department.

**102. Vertebrate Morphology.**—The origin of vertebrates and of the different classes; the segmentation of the head, morphology of special systems. Lectures; required readings; discussions. *Twice a week; I; ( $\frac{1}{2}$  unit). Time to be arranged.* Professor KINGSLEY

**107. Parasitology.**—Structure and life history of animal parasites; the irrelations to disease; origin and biological significance of parasitism. Conferences; assigned reading; demonstrations. *Twice a week; I, II; (1 unit). Given 1918-19 and alternate years.*

Professor WARD

**109-109a. Physiological Ecology.**—The regulatory mechanism of organisms; neutrality, osmotic pressure, immunity, and temperature in relation to natural environments. 109, *twice a week*; 109a assigned readings and reports. *II; ( $\frac{1}{2}$  unit each). Time to be arranged.* Given in 1918-19 and alternate years.] Assistant Professor SHELFORD

**110-110a. Economic Ecology.**—Application of principles of physiology and ecology to problems of fisheries and pollution; quantity and weather; forestry and conservation. 110, *twice a week*; 110a, assigned reading and reports. *II; ( $\frac{1}{2}$  unit each). Time to be arranged.* Given in 1919-20 and alternate years. Assistant Professor SHELFORD

**111. Experimental Ecology.**—The repetition of published experiments in physiology and ecology, and study of modern methods and apparatus. *I, II; ( $\frac{1}{2}$  to 2 units). Time to be arranged.* Assistant Professor SHELFORD

**115. Factors of Individual and Racial Development.**—Experimental embryology; regeneration; heredity; variation; evolution. *Twice a week; I, II; (1 unit). Time to be arranged.* Professor ZELENY

**117. Faunistic Zoology.**—Taxonomy and distribution with especial reference to the local fauna; laboratory and field work. *Three times a week. I; ( $\frac{1}{2}$  to 1 unit); II, ( $\frac{1}{2}$  to 1 unit).* Professor SMITH

**127. Theories of Animal Phylogeny.**—Relations of various groups of animals; signification of so-called intermediate forms; invertebrate larval forms and theories of descent based on them. *Once or twice a week; I, II; (1 unit). Given in 1919-20 and in alternate years.* Professor WARD

## Individual Research Courses

**121. Invertebrate Morphology and Parasitology.**—Individual research course. *I, II; (1 to 2 units). Time to be arranged.* Professor WARD

**122. Vertebrate Morphology.**—Individual research course.—*I, II; (1 to 2 units). Time to be arranged.* Professor KINGSLEY

**123. Faunistic and Systematic Zoology.**—Individual research course.—*I, II; (1 to 2 units). Time to be arranged.* Professor SMITH

**124. Experimental Zoology.**—Individual research course.—*I, II; (1 to 2 units). Time to be arranged.* Professor ZELENY

**125. Animal Ecology and Behavior.**—Individual research course. *I, II; (1 to 2 units). Time to be arranged.* Assistant Professor SHELFORD

**Summer Session Courses**

Professor ZELENY, Dr. FAUST

**Courses for Undergraduates**

**S1. General Zoology.**—Animal biology, principles of structure, function, interrelations, origin, and development of animal life; simpler and best-established generalizations in zoological theory. Lectures and recitations. (4). Five hours credit may be obtained on the completion of additional assigned work.

Professor ZELENY, Dr. FAUST

**S2. Vertebrate Zoology and Comparative Anatomy.**—Classification of the Chordata; early stages of vertebrate embryology; structure of vertebrate tissues; anatomy of systems of organs considered in respect to their function, ontogeny, and evolution in the vertebrate series; anatomical studies of types of Chordata. Recitations and laboratory. (3 or 5).

Professor ZELENY, Dr. FAUST

*Prerequisite:* Zoology 1 or 1a.*Equivalent:* If taken for 5 credit hours: Zoology 2.**Courses for Advanced Undergraduates and Graduates**

**S25. Experimental Zoology.**—Experimental embryology; regeneration; heredity; variation; evolution. Laboratory; assigned reading; conference. (5).

Professor ZELENY

*Prerequisite:* Two years of university work including one year in zoology.*Equivalent:* Zoology 25.**Courses for Graduates**

**S124. Experimental Zoology.**—Individual research course. (1 to 2 units).

Professor ZELENY



PART IV  
THE UNIVERSITY PRESS



# THE UNIVERSITY PRESS

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EDMUND JAMES JAMES, Ph.D., LL.D., *President of the University* (on leave)

DAVID KINLEY, Ph.D., LL.D., *Acting President*

HARRISON EDWARD CUNNINGHAM, A.B., *Director of the University Press*

The University of Illinois Press was organized in 1918 to have charge of the work of editing, printing, and distributing the publications of the University.

The University of Illinois publishes, through its several departments and experiment stations, and the scientific bureaus located at the University,<sup>1</sup> the publications named below. A complete list of publications available for sale or free distribution (other than the Annual Register and the announcements of the colleges and schools) is issued by the University Library annually in July. Persons wishing to obtain any of the publications are requested to correspond with the department concerned or with the Director, 161 Administration Building. Libraries and institutions offering material of equivalent value may secure exchanges by corresponding with the University Librarian.

The list of series of publications is as follows:

## AGRICULTURE:

The Bulletin of the Agricultural Experiment Station.

The Circular of the Agricultural Experiment Station.

The Soil Report of the Agricultural Experiment Station.

## ENGINEERING:

The Bulletin of the Engineering Experiment Station.

The Circular of the Engineering Experiment Station.

The Ceramics Bulletin.

## SCIENTIFIC BUREAUS:

The Report of the State Entomologist.

The State Laboratory of Natural History Bulletin.

The Natural History Survey of Illinois.

The State Geological Survey Bulletin.

The State Geological Survey Monographs.

The State Water Survey Bulletin.

The Illinois Coal Mining Investigations Bulletin.

## EDUCATION:

The School of Education Bulletin.

The Bulletins of the High-School Visitor's Office.

The Bulletins of the Bureau of Educational Research.

## ENGLISH:

The Illinois Association of Teachers of English Bulletin.

## LAW:

The Law Bulletin.

## GRADUATE SCHOOL:

The Journal of English and Germanic Philology (quarterly, \$3.00 a year).

The University Studies (occasional).

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<sup>1</sup>See pages 423 to 435.

The University of Illinois Studies in the Social Sciences (monographs, quarterly, \$3.00 a year).

The University of Illinois Studies in Language and Literature (monographs, quarterly, \$3.00 a year).

The Illinois Biological Monographs (quarterly, \$3.00 a year).

#### WAR AND RECONSTRUCTION:

The War Bulletins and Circulars.

In addition to the serials enumerated above, the University has published a number of books, among which may be mentioned the following:

Alumni Record, 1913; 921 pages, \$2.50.

Alumni Record, 1918; 1,147 pages, 9 plates, \$2.00. Baker Series.

Directory of Matriculants, 1916; 35,000 names, 1,284 pages, \$5.00.

Konungs Skuggsja, the main MSS. of, in phototypic reproduction, with diplomatic text, 1915; 67 plates, 191 pages, \$15.00.

The Genus *Phoradendron*, 1916; 224 pages, 245 plates, \$2.50.

Semi-Centennial History of the University of Illinois, volume I, by Burt E. Powell, 1918; 631 pages, illust., cloth, \$2.00 and \$2.25; morocco, \$2.50.

Life of Columcille, compiled by Marus O'Donnell in 1532. Edited and translated by A. O'Kelleher and G. Schoepperle. Irish Foundation Series, I; 1918; 516 pages, paper, \$3.50; cloth, \$5.00.

Municipal Documents and other Publications on Municipal Government in the University of Illinois Library, 1917; 49 pages, \$0.25.

List of Serials in the University of Illinois Library, together with those in other libraries in Urbana and Champaign, 1911; 233 pages, \$1.20.

State Documents for Libraries, 1915; 163 pages, \$0.75.

The life of the Pleistocene by F. C. Baker, 500 pages, 56 plates \$3.00

La Colección Cervantina de la Sociedad Hispánica de América (The Hispanic Society of America): Ediciones de Don Quijote. By Homero Seris, Ph.D.; 158 pages and 11 facsimiles, \$1.50.



PART V  
UNIVERSITY EXTENSION



# UNIVERSITY EXTENSION

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Extension work has not been organized as a separate administrative unit in the University of Illinois. Several departments, however, have initiated activities, both on the campus and in the State at large, which serve to make some of the facilities of the University available to groups of mature persons who are engaged in various industries and professions.

## AGRICULTURE

Each of the departments of the College of Agriculture does extension work and so far as possible provides special men for this purpose. In addition to this, a separate service known as Agricultural College Extension offers courses in the principles and methods of extension work (see page 250), conducts extension enterprises that do not deal with technical subjects, and cooperates with the other departments in projecting their work in the State.

Some of the more general College extension enterprises are:

(1) A two-weeks' course in agriculture, known as the Corn Growers' and Stockmen's Convention, held annually at the College of Agriculture since 1898. The work includes lectures, conferences, and demonstrations in the subjects of stock-judging, milk-testing, farm mechanics, and farm crops.

(2) Agricultural extension schools of a week's duration. Twenty-seven such schools were held at different parts of the State during 1917-18.

(3) Demonstrations held in connection with soil-fertility and crop fields throughout the State.

(4) Cooperation, by furnishing teachers and lecturers, with other educational agencies for rural communities, e.g., farmers' institutes, special lecture railway trains, the Boys' State Fair School.

(5) Educational exhibits at fairs and expositions.

(6) School and community excursions to the University.

For the Cooperative Extension Service in agriculture and home economics conducted by the University of Illinois and the United States Department of Agriculture, under the provisions of the Federal Smith-Lever Act of May 8, 1914, see pp. 415-418.

## CERAMIC ENGINEERING

In addition to the regular four-year technical curriculum, the department of ceramic engineering cooperates with the clay and allied industries by offering biannually, at Urbana, during the second semester, a two-weeks' industrial course in the principles underlying the manufacture of ceramic products, for those who have not the time nor the preparation required for academic studies. The work includes lectures, laboratory work, practise in firing kilns, and informal gatherings for question-asking. A common-school education is sufficient to enable one to do the work of this course. No charge of any kind is made. The number enrolled in January, 1915, was 47; in January, 1916, 25; in January, 1918, 27.

## COOPERATIVE EXTENSION SERVICE

University of Illinois and United States Department of Agriculture Under the Smith-Lever Act

EUGENE DAVENPORT, M.Agr., LL.D., DIRECTOR OF AGRICULTURAL EXTENSION SERVICE

**Agriculture**

WALTER FREDERICK HANDSCHIN, B.S., *Vice-Director of Extension Service*  
 GEORGE NELSON COFFEY, Ph.D., *State Leader of County Farm Advisers*  
 JAMES DATER BILSBORROW, B.S., *Assistant State Leader of County Farm Advisers*  
 CHARLES AUSTIN ATWOOD, B.S., *Assistant State Leader of County Farm Advisers*  
 VERNE VANIMAN, B.S., *Assistant State Leader of County Farm Advisers*  
 JOHN CLYDE SPITLER, B.S., *Assistant State Leader of County Farm Advisers*  
 JAMES HENRY GREENE, M.S., *State Leader in Junior Extension*  
 JAMES HOWELL BALDWIN, *Assistant State Leader, Junior Extension*  
 EVELYN BUCHAN, *Assistant State Leader, Junior Extension*  
 HARRIET MURIEL PHILLIPS, B.S., *Assistant State Leader, Junior Extension*

**Departmental Specialists***Agronomy*

JEROME EDWARD READHIMER, B.S., *Professor, Soils Extension*  
 JAY COURTLAND HACKLEMAN, B.S., A.M., *Associate Professor, Farm Crops Extension*

*Animal Husbandry*

WILLIAM HERSCHEL SMITH, M.S., *Assistant Professor, Animal Husbandry*

*Dairy Husbandry*

ERNEST MCCHESENEY CLARK, B.S., *Assistant Professor, Dairy Production*  
 CHRIS SIMEON RHODE, B.S., *Instructor, Dairy Husbandry*

*Farm Organization and Management*

JAMES BURTON ANDREWS, B.S., *Associate, Farm Organization and Management*  
 EMIL RAUCHENSTEIN, B.S., *Associate, Farm Organization and Management*

*Horticulture*

JOHN WILLIAM LLOYD, Ph.D., *Professor, Olericulture*

**County Farm Advisers****County**

Frank A Gougler, B.S.....	Adams
Charles J Mann, B.S.....	Bureau
Robert W Dickenson, B.S.....	Cass
Charles H Oathout, B.S.....	Champaign
Clair E Hay, B.S.....	Christian
Edward H Walworth, M.S.....	Clark
Charles H Rehling, B.S.....	Clinton
Melvin Thomas, B.S.....	Coles
Clarence C Logan, B.S.....	Crawford
William G Eckhardt, B.S.....	DeKalb
Floyd L Johnson, B.S.....	DeWitt
Edward B Heaton, B.S.....	DuPage
William B Gernert, Ph.D.....	Edgar
Harry R Pollock, B.S.....	Edwards
Herbert J Rucker, B.S.....	Effingham
Frank C Hersman, B.S.....	Ford
Henry A deWerff, B.S.....	Franklin
Aaron W Miner, B.S.....	Fulton
Eugene M Phillips, B.S.....	Greene
Frank E Longmire, M.S.....	Grundy

James H Lloyd, B.S.....	Hancock
J Howard Miner, B.S.....	Henderson
John T Montgomery, B.S.....	Henry
Lewis W Wise, B.S.....	Iroquois
Clair J Thomas, B.S.....	Jackson
Clifford E Wheelock, B.S.....	Jersey
Ora M McGhee, B.S.....	Johnson
William B Richards, B.S.....	Kane
John S Collier, M.S.....	Kankakee
Emil M D Bracker, B.S.....	Knox
Warren E Watkins, B.S.....	Lake
Ira S Brooks, B.S.....	LaSalle
Leland S Griffith, B.S.....	Lee
Harry O Allison, M.S.....	Livingston
Elmer T Ebersol, M.S.....	Logan
Sidney B Smith, B.S.....	Macon
William P Miller, B.S.....	Macoupin
Julian B Haberkorn, B.S.....	Madison
Fred J Blackburn, B.S.....	Marion
Thomas R Isaacs, B.S.....	Nason
Ray C Doneghue, M.S.....	McDonough
Arthur J Gafke, B.S.....	McHenry
Orlo D Center, M.S.....	McLean
Garfield J Wilder, B.S.....	Menard
Perry S Richey, B.S.....	Mercer
Alfred Tate, B.S.....	Monroe
Alden E Snyder, B.S.....	Montgomery
George B Kendall, B.S.....	Morgan
Allen L Higgins, B.S.....	Moultrie
George T Snyder, B.S.....	Ogle
William E Hedgcock, B.S.....	Peoria
Arthur E Burwash, B.S.....	Piatt
Otis Kercher, B.S.....	Pike
J J Doerschuk, B.S.....	Randolph
Harry B Piper, B.S.....	Richland
Palmer R Edgerton, B.S.....	Rock Island
Earl Price, B.S.....	Saline
Irwin A Madden, B.S.....	Sangamon
Charles H Belting, B.S.....	Shelby
B W Tillman, B.S.....	St. Clair
George F Baumeister, B.S.....	Stephenson
Chester G Starr, B.S.....	Tazewell
Charles E Durst, M.S.....	Union
Arthur Lumbrick, B.S.....	Vermilion
Ralph R Wells, B.S.....	Warren
Stephen J Craig, M.S.....	Whiteside
Paul R Lisher, B.S.....	Will
William E Hart, B.S.....	Williamson
M L Mosher, M.S.....	Woodford

Under the provisions of the Smith-Lever Act, approved by the President of the United States on May 8, 1914, and the terms of its acceptance by the State of Illinois, the University

becomes cooperatively responsible for a system of demonstration service designed to combine the results of scientific discovery with the most approved practise on the farms and in the households of the State.

The most important lines of work undertaken under this act are as follows:

- (1) Cooperation with county farm bureaus in the employment of agricultural advisers.
- (2) Cooperation with county home improvement associations in the employment of a woman adviser.
- (3) Employment of extension specialists in agriculture and home economics as special advisers in the field.

### HOME ECONOMICS EXTENSION

ISABEL BEVIER, Ph.M., *Vice-Director of Home Economics Extension*

MAMIE BUNCH, A.B., *State Leader in Home Economics Demonstration*

JULIET LITA BANE, M.S., *Assistant State Leader in Home Economics Demonstration*

#### Departmental Specialists

##### *Food*

NINA BELLE CRIGLER, B.S., *Food Specialist*

##### *School Lunches*

MARY PACK, A.B., *Assistant*

##### *Health*

FANNIE MARIA BROOKS, A.B., R.N., *Health Specialist*

##### *Textiles*

MABEL WILKERSON, Ph.B., *Associate*

##### *Equipment*

KATHERINE KELSEY MESSENGER, B.S., *Instructor*

##### *Organization*

FERNE HARRIS, A.B., *Assistant State Leader*

#### County Advisers

#### County

Grace Taylor, B.S.....	Adams
Mary E Bronson, Mrs., A.B., B.S.....	Champaign
Susan Wilder, M.S.....	Hancock
Ethel Dole, A.M.....	Kane
Carrie E Castle, A.M.....	Kankakee
Kathleen Chabot, B.S.....	Kankakee
Helen Grotfelter, B.S.....	LaSalle
Florence Swan, A.B.....	Livingston
Edna Danner, B.S.....	Logan
Lilla Harkins, M.S.....	Macon
Mary E Dalbey, Mrs., B.S.....	McHenry
Clara Brian, A.M.....	McLean
Mary E Gildersleeve, A.B.....	Mercer
Emma Wright, A.B.....	Saline
Maud E Jenkins, B.S.....	Tazewell
Eda Jacob, A.B.....	Tri-City
Kate L Bear, A.M.....	Vermilion
Mary Hoover, B.S.....	Williamson

The service in home economics may be classified as follows:

1. *Correspondence.*—Numerous requests come from individuals and clubs for help in solving some problem of preparing food, planning a house, feeding a child, or in preparing topics for club study. All such requests receive careful attention. In 1918-19, 48,650 responses were sent out.

2. *Service for Organizations.*—All extension work during the year has been suited to present needs; for instance, in war time housekeepers generally found considerable time for Red Cross and other war work without seriously neglecting acknowledged home duties. It has been the business of this department to show how such time as housekeepers learned to free for war work can be used for home improvement in peace time. The application of home economics principles to home problems has been taught through lectures and demonstrations before the following named organizations, reaching during the year 269,136 people.

Academics	Home Bureaus
Boys' and Girls' Clubs	Home Improvement Associations
Chamber of Commerce	Household Science Clubs
Child Welfare League	Library Associations
Church Settlements	Parent-Teachers' Associations
Civic Leagues	Parochial Schools
Colleges	Red Cross
Community Fairs	Soil Improvement Association
Council of National Defense	State Fair
County Fairs	Teachers' Institutes
Farmers' Institutes	Township High Schools
Granges	Woman's Clubs
	Women's Christian Temperance Union

3. *Movable Schools.*—The extension division of home economics in so far as possible provides instruction upon request for a movable school in any community which is sufficiently interested to pay the local expenses and the traveling and living expenses for the week of one or two instructors. In 1916-17 and 1917-18, the movable school was one of the most appreciated features of the extension service, but since Home Bureaus have been established in seventeen counties where movable schools had been most in demand, this type of instruction has been replaced by the activities inaugurated by the Home Adviser. During 1918-19, however, 30 weeks of movable schools served 4,495 people.

4. *Press.*—The press of the State has been most helpful. The local papers in the 17 counties in which Home Bureaus have been established have been especially loyal in their cooperation. The activities of the Home Bureau have been given wide publicity through various farm journals.

5. *Home Bureaus.*—As a direct result of interest in home economics created by instruction from this department in former years and the intensive service made possible last year through the War Emergency fund, the Home Bureau has been established in 17 counties.

Through the various Home Bureau activities, the county advisers, assisted by the staff specialists; in 1918-19 instructed 208,057 women and girls.

The Home Bureau cooperates with the Federal Department of Agriculture and the University of Illinois for the promulgation of higher standards of living. It provides a local fund of at least \$1,500 to equal the Federal Grant for financing the work in the county. The extension division of the home economics department acts in an advisory capacity as to the subject matter taught. The Executive Board of the Bureau elects its adviser from a group of candidates recommended by the appointments committee of the extension department and provides groups of members who will demonstrate in their homes the instruction given by the adviser. The Home Bureau thus forms the link by which the findings of the laboratory are made operative in the homes of the people.





PART VI  
EXPERIMENT STATIONS AND OTHER  
SCIENTIFIC BUREAUS



# THE AGRICULTURAL EXPERIMENT STATION

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EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY (on leave of absence)  
DAVID KINLEY, Ph.D., LL.D., ACTING PRESIDENT

## STAFF<sup>1</sup>

EUGENE DAVENPORT, M.Agr., LL.D., *Director*  
CYRIL GEORGE HOPKINS,<sup>2</sup> Ph.D., *Vice-Director*  
STEPHEN ALFRED FORBES, Ph.D., *Consulting Entomologist*  
ANNA CUSHMAN GLOVER, *Secretary*  
FLORENCE E SMITH, B.S., *Chief Editorial Assistant*

### *In Agronomy*

CYRIL GEORGE HOPKINS,<sup>2</sup> Ph.D., *Chief, Agronomy and Chemistry*  
LOUIE HENRIE SMITH, Ph.D., *Chief, Plant Breeding*  
JEREMIAH GEORGE MOSIER, B.S., *Chief, Soil Physics*  
WILLIAM LEONIDAS BURLISON, Ph.D., *Chief, Crop Production*  
ROBERT STEWART, Ph.D., *Chief, Soil Fertility*  
ALBERT LEMUEL WHITING, Ph.D., *Chief, Soil Biology*  
AXEL FERDINAND GUSTAFSON,<sup>3</sup> M.S., *Assistant Chief, Soil Physics*  
ERNEST VAN ALSTINE,<sup>3</sup> M.S., *Assistant Chief, Soil Analysis*  
FREDERICK CHARLES BAUER,<sup>3</sup> M.S., *Assistant Chief, Soil Fertility*  
FRANK WILLIAM GARRETT, B.S., *Assistant Chief, Soil Fertility*  
HENRY CLYDE WHEELER, B.S., *Associate, Soil Physics*  
WILBUR ROY LEIGHTY, B.S., *Associate, Soil Analysis*  
JOHN EZRA WHITCHURCH, B.S., *Associate, Soil Fertility*  
FORREST ADISON FISHER, B.S., *Associate, Soil Physics*  
FREDERICK MARTIN WILLIAM WASCHER, B.S., *Associate, Soil Physics*  
ARTHUR MAXWELL BRUNSON, M.S., *Associate, Plant Breeding*  
ORLAND I ELLIS, B.S., *Associate, Soil Physics*  
HARRISON FREDERICK THEODORE FAHRNKOFF, B.S., *Associate, Soil Fertility*  
GEORGE EDWARD GENTLE, B.S., *Associate, Soil Physics*  
WARREN RIPPEY SCHOONOVER, M.S., *Associate, Soil Fertility*  
HOWARD JOHN SNIDER, B.S., *Associate, Soil Fertility*  
ROY HANSEN, M.S., *Associate, Soil Biology*  
RAYMOND STRATTON SMITH, Ph.D., *Associate, Soil Physics*  
MICHAEL IVANOVITCH WOLKOFF, Ph.D., *Associate, Soil Fertility*  
THOMAS EVERETT RICHMOND, M.S., *Associate, Soil Biology*  
ERNEST EVERETT DETURK, Ph.D., *Associate, Soil Fertility*  
CLYDE MAURICE LINSLEY, B.S., *First Assistant, Soil Fertility*  
GEORGE HARLAN DUNGAN, B.S., *First Assistant, Crop Production*  
JOHN PIEPER, M.S., *First Assistant, Crop Production*  
ROBERT WATT STARK, B.S., *First Assistant, Crop Production*  
FRANCIS HUGH KELLEY, B.S., *First Assistant, Soil Fertility*  
HARRY LEONARD CARLSON, B.S., *Assistant, Soil Physics*

<sup>1</sup>The Station Staff includes only those scientific workers who have been recommended by the President and appointed by the Board of Trustees.

<sup>2</sup>Died Oct. 6, 1919.

<sup>3</sup>On leave.

WENDELL PHILLIP HILTABRAND, B.S., *Assistant, Soil Physics*  
 OLIVER WENDELL HOLMES, B.S., *Assistant, Crop Production*  
 HENRY GEORGE MARTIN JACOBSON, B.S., *Assistant, Soil Fertility*  
 ALVA HUGO KARRAKER, B.S., *Assistant, Soil Physics*  
 JOHN LAMB, Jr., B.S., *Assistant, Soil Fertility*  
 VICTOR ELWIN SPENCER, B.S., *Assistant, Soil Analysis*

#### *In Animal Husbandry*

HERBERT WINDSOR MUMFORD, B.S., *Chief, Animal Husbandry*  
 HARRY SANDS GRINDLEY, D.Sc., *Chief, Animal Nutrition*  
 WALTER CASTELLA COFFEY, M.S., *Chief, Sheep Husbandry*  
 JAMES LLOYD EDMONDS, B.S., *Chief, Horse Husbandry*  
 HENRY PERLY RUSK, M.S., *Chief, Cattle Husbandry*  
 ROBERT GRAHAM, D.V.M., B.S., in Ag., *Chief, Animal Pathology*  
 JOHN A DETLEFSEN, D.Sc., *Associate Chief, Genetics*  
 HAROLD HANSON MITCHELL, Ph.D., *Assistant Chief, Animal Nutrition*  
 ROSCOE RAYMOND SNAPP, B.S., *Assistant Chief, Cattle Husbandry*  
 SLEETER BULL, M.S., *Associate, Animal Nutrition*  
 ELMER ROBERTS, Ph.D., *Associate, Genetics*  
 JAMES WILBUR WHISENAND, M.S., *Associate, Animal Husbandry*  
 WILLIAM GARFIELD KAMMLADE, M.S., *Associate, Animal Husbandry*  
 JOHN BENJAMIN RICE, B.S., *Associate, Animal Husbandry*  
 HERMAN RICHARD SCHWARZE, D.V.S., M.D.C., *Associate, Animal Pathology*  
 HENRY CHARLES ECKSTEIN, M.S., *First Assistant, Animal Nutrition*  
 WORTH ARTHUR ALLISON, A.B., M.S., *First Assistant, Animal Husbandry*  
 MARY HELEN KEITH, B.S., A.M., *Assistant, Animal Nutrition*  
 THOMAS SHERMAN HAMILTON, B.S., *Assistant, Animal Nutrition*  
 IVAN BERTRAND BOUGHTON, D.V.M., *Assistant, Animal Pathology*

#### *In Dairy Husbandry*

HARRISON AUGUST RUEHE, M.S., *Acting Head, Assistant Chief, Dairy Manufactures*  
 HARRY ALEXIS HARDING, Ph.D., *Chief, Dairy Bacteriology*  
 WALTER LEE GAINES, Ph.D., *Chief, Milk Production*  
 MARTIN JOHN PRUCHA, Ph.D., *Associate Chief, Dairy Bacteriology*  
 OLIVER RALPH OVERMAN, Ph.D., *Assistant Chief, Dairy Chemistry*  
 FRANK ASHMORE PEARSON, B.S., *Assistant Chief, Dairy Husbandry*  
 LEIGHTON J TRUE, B.S., *Associate, Dairy Manufactures*  
 MASON HERBERT CAMPBELL, M.S., *Associate, Dairy Husbandry*  
 ARTHUR SAMUEL AMBROSE, B.S., *Associate, Dairy Manufactures*  
 HARRY ALBERT ROSS, B.S., *First Assistant, Dairy Economics*  
 BENJAMIN ANDREW STIRITZ, B.S., *Assistant, Dairy Manufactures*

#### *In Farm Organization and Management*

WALTER FREDERICK HANDSCHIN, B.S., *Assistant Chief, Farm Organization and Management*  
 JAMES BURTON ANDREWS, B.S., *First Assistant, Farm Organization and Management*  
 EMIL RAUCHENSTEIN, B.S., *Associate, Farm Organization and Management*  
 ELINOR TRAXLER, A.B., *Assistant, Farm Organization and Management*

#### *In Horticulture*

JOSEPH CULLEN BLAIR, M.S., D.Sc., *Chief, Horticulture*  
 JOHN WILLIAM LLOYD, Ph.D., *Chief, Olericulture*  
 CHARLES SPENCER CRANDALL, M.S., *Chief, Plant Breeding*

HERMAN BERNARD DORNER, M.S., *Chief, Floriculture*  
BETHEL STEWART PICKETT, M.S., *Chief, Pomology*  
ERNEST WINFIELD BAILEY,<sup>1</sup> M.S., *Assistant Chief, Pomology*  
WARREN ALBERT RUTH, Ph.D., *Assistant Chief, Pomology*  
HARRY WARREN ANDERSON, Ph.D., *Assistant Chief, Pomology*  
PHILIP AUGUSTUS LEHENBAUER, Ph.D., *Assistant Chief, Plant Physiology*  
WILLIAM SANFORD BROCK, A.B., B.S., *Associate, Pomology*  
JAMES HUTCHINSON, *Associate, Floriculture*  
HOWARD RUSSELL STANFORD, B.S., *Associate, Plant Breeding*  
EMIL CONRAD VOLZ, M.S.A., *Associate, Olericulture*  
HARRY WARREN DAY, B.S., *First Assistant, Olericulture*  
STANLEY WILLIAM HALL, B.S., *First Assistant, Floriculture*  
ZENAS HARRY MOHLMAN, B.S., *Assistant, Floriculture*  
EMIL FREDERICK GUBA, B.S., *Assistant, Pomology*

By an act approved March 2, 1887, the national government appropriated \$15,000 a year to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station of the University of Illinois* was founded in 1888 and placed under the direction of the Trustees of the University; a part of the University farm, with buildings, was assigned for its use.

The federal grant has since been increased to \$30,000 a year. This is supplemented by state appropriations which make an aggregate fund of nearly a quarter of a million dollars devoted wholly to research in agriculture.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and of nutrition, and the improvement of the economic production of crops. All the principal types of soil of the State are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the State down to an area of ten acres. Between forty and fifty fields and orchards are operated in various portions of the State for the study of local problems, and assistants are constantly on the road to conduct experiments or to give instruction to producer or consumer. The results of investigation are published in bulletins, which are issued in editions of 40,000 and distributed free of charge.

Much of this work is of interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

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<sup>1</sup> On leave of absence

# THE ENGINEERING EXPERIMENT STATION

---

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY (On leave)  
DAVID KINLEY, Ph.D., LL.D., ACTING PRESIDENT

## EXECUTIVE STAFF

CHARLES RUSS RICHARDS, M.E., M.M.E., *Director*  
MATTHEW RUTHERFORD RIDDELL, B.A.Sc., *Assistant to the Director*  
SAMUEL WILSON PARR, M.S., *Professor of Applied Chemistry*  
THE HEADS OF THE DEPARTMENTS OF THE COLLEGE OF ENGINEERING

## Research Corps

HERBERT FISHER MOORE, M.M.E., *Research Professor of Engineering Materials*  
ALONZO PLUMSTED KRATZ, M.S., *Research Assistant Professor of Mechanical Engineering*  
HARRISON FREDERICK GONNERMAN, M.S., *Research Assistant Professor of Theoretical and Applied Mechanics*  
HAROLD HOUGHTON DUNN, M.S., *Research Associate in Railway Engineering*  
LEROY ALONZO WILSON,<sup>1</sup> M.E., M.M.E., *Research Associate in Mechanical Engineering*  
WARD ELY PRATT,<sup>2</sup> M.E., *Special Research Associate in Mechanical Engineering*  
FRANK ERWIN RICHART, M.S., *Research Associate in Theoretical and Applied Mechanics*  
JAMES RUSSELL FLEMING, E.M., *Research Associate in Mining Engineering*  
VINCENT STEPHEN DAY, B.S., *Special Research Assistant in Mechanical Engineering*  
SAMUEL RUSSELL OFFUTT, B.S., *Research Graduate Assistant in Civil Engineering*  
WILLIAM LOUIS SCHWALBE, B.S., *Research Graduate Assistant in Theoretical and Applied Mechanics*  
GEORGE REED SHELTON, A.B., *Research Graduate Assistant in Ceramic Engineering*  
GEORGE EDWARD SLADEK, B.S., *Research Graduate Assistant in Ceramic Engineering*  
BENJAMIN RACZKOWSKI HARRIS, B.S., *Research Graduate Assistant in Chemistry*  
WILLIAM DAIL CANNON, B.S., *Research Graduate Assistant in Electrical Engineering*  
CLIFTON EUGENE BARNES, B.S., *Research Graduate Assistant in Gas Engineering*  
HARVEY WOOLSEY HYDE, B.S., *Research Graduate Assistant in Gas Engineering*  
GEORGE THEODORE FELBECK, B.S., *Research Graduate Assistant in Mechanical Engineering*  
CRANDALL ZACHARIAH ROSECRANS, B.S., *Research Graduate Assistant in Mechanical Engineering*  
REX LENOI BROWN, B.S., *Research Graduate Assistant in Theoretical and Applied Mechanics*

The Engineering Experiment Station of the University of Illinois is an organization within the College of Engineering. It was created by an act of the Board of Trustees on December 8, 1903, to stimulate and to elevate engineering education and to investigate problems of special importance to professional engineers and to the manufacturing, railway, mining and other industrial interests of the State and of the country. The knowledge thus obtained is made available through the publication of bulletins presenting the results of original research, and of circulars containing compilations of important information not otherwise readily accessible to the interests to be served.

The control of the Station is vested in an Executive Staff composed of the Director and his Assistant, the Heads of the several departments of the College of Engineering and the

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<sup>1</sup> Transferred to instructional staff.

<sup>2</sup> Resigned.

Professor of Industrial Chemistry. This staff is responsible for the establishment of general policies governing the work of the Station, including the approval of material presented for publication. While all members of the teaching staff of the College are encouraged to engage in scientific research, it is conducted chiefly by the Research Corps composed of full-time research assistants, research graduate assistants and special investigators. Those employed for special investigations are engaged for a limited time on a single problem.

The University of Illinois now maintains fourteen Research Graduate Assistantships in the Engineering Experiment Station. In addition, two Research Graduate Assistantships in Gas Engineering have been established under the patronage of the Illinois Gas Association. These Assistantships are open to graduates of approved American and foreign universities and technical schools, who are prepared to undertake graduate study in engineering, physics, or applied chemistry. Each assistantship carries a stipend of five hundred dollars and freedom from tuition, incidental, and laboratory fees. Appointment to these positions must be accepted for two consecutive collegiate years, at the expiration of which period, if all requirements have been met, the degree of Master of Science will be conferred. Not more than half of the time of these assistants, during ten months of each year, is required in connection with the work of the department to which they are assigned; the remainder is available for graduate study.

Information concerning the opportunities for graduate study in engineering will be found in the circular of the Graduate School, which may be obtained upon request to the Dean of the Graduate School. Further details regarding appointment to the Research Graduate Assistantships will be supplied upon request by the Director of the Engineering Experiment Station.

The Station has already published 112 bulletins and eight circulars. All these publications are regarded as contributions to the literature of engineering, and many of them present important additions to the science of engineering. All publications are distributed free to those persons who are on the regular mailing list of the Station, and to others upon request. After the number of copies of a particular bulletin, however, has been reduced to an established limit, a small charge is made for each of those remaining for distribution. A charge is also made for duplicate copies of a particular bulletin when these are requested by an individual, unless in special cases it is deemed advantageous to the Station to furnish such duplicates free. When ordered in large quantities, a special rate for bulletins may be made by the Director.

Upon request to the Director, the name of any person who desires to receive the publications of the Engineering Experiment Station, as they are issued, will be added to the regular mailing list. A complete list of the publications will be sent to anyone who may desire it.

*Cooperative Investigations.*—In addition to the research work conducted with the funds assigned to the Engineering Experiment Station by the University, a number of cooperative investigations have been undertaken with funds supplied by outside agencies which are chiefly interested in a particular investigation. In undertaking such investigations, the University reserves the right to control the results secured and to publish them for the information and benefit of the public. The funds for such cooperative investigations are paid to the University and are administered by it for the special purpose for which they are provided.

The following important cooperative investigations are now in progress:

1. An investigation of chilled iron car wheels in cooperation with the Association of Manufacturers of Chilled Car Wheels.
2. An investigation of stresses in railroad track in cooperation with the American Society of Civil Engineers and the American Railway Engineering Association.

3. An investigation of the coking of coal in cooperation with Mr. A. T. Hert of the American Creosoting Company, Louisville, Kentucky.
4. An investigation of problems in the mining of coal in cooperation with the United States Bureau of Mines and the State Geological Survey Division. (See statement concerning cooperative investigation of problems of Illinois mineral industries on page 435).
5. An investigation of warm air furnaces and furnace heating in cooperation with the National Warm Air Heating and Ventilating Association.
6. An investigation of the fatigue phenomena of metals in cooperation with the Engineering Foundation and the National Research Council.



# BOARD OF NATURAL RESOURCES AND CONSERVATION

OF THE

## DEPARTMENT OF REGISTRATION AND EDUCATION

STATE OF ILLINOIS

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Ex-Officio—FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*

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Engineering—JOHN W ALVORD, C.E., *Consulting Engineer, Chicago*

Geology—ROLLIN D SALISBURY, A.M., LL.D., *Professor of Geology, University of Chicago*

Forestry—JOHN M COULTER, Ph.D., *Professor of Botany, University of Chicago*

Biology—WILLIAM TRELEASE, Sc.D., LL.D., *Professor of Botany, University of Illinois*

Under an Act of the General Assembly entitled "The Civil Administrative Code" the functions and duties formerly exercised by the Scientific Bureaus located at the University of Illinois, were vested in the Department of Registration and Education with the proviso that they continue to be exercised at the University of Illinois.

The Board of Natural Resources and Conservation, acting through subcommittees composed of the Director of the Department of Registration and Education, the President of the University of Illinois, or his representative, and one or more expert advisers especially qualified, decides all matters pertaining to the Bureaus, including research, investigational, and scientific work, the selection and appointment of the members of the scientific staff, the cooperation with the University of Illinois in the use of scientific staff, and equipment and cooperation with allied Divisions and Departments. These Bureaus include the Divisions of Natural History Survey, State Water Survey, and State Geological Survey.

# STATE NATURAL HISTORY SURVEY

## COMMITTEE

FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*  
KENDRIC C BABCOCK, Ph.D., LL.D., *Dean, College of Liberal Arts and Sciences*  
WILLIAM TRELEASE, Sc.D., LL.D., *Professor of Botany, University of Illinois*  
JOHN M COULTER, Ph.D., *Professor of Botany, University of Chicago*

## STAFF

STEPHEN ALFRED FORBES, Ph.D., LL.D., *Chief*  
ROBERT EARL RICHARDSON, A.M., *Biologist in charge of Biological Station*  
VICTOR ERNEST SHELFORD, Ph.D., *Biologist in charge of Research Laboratories*  
ROBERT BARCLAY MILLER, M.F., *Forester*  
WESLEY PILLSBURY FLINT, *Chief Field Entomologist*  
EDWARD MICHAEL SCHALCK, A.B., *Field Entomologist*  
STEWART C CHANDLER, B.S., *Field Entomologist*  
JOHN RUSSELL MALLOCH, B.S., *Illustrator and Custodian*  
CHARLES PAUL ALEXANDER, Ph.D., *Systematic Entomologist*  
CHARLES STOCKMAN SPOONER, A.M., *Entomological Assistant*  
MARY JANE SNYDER, *Secretary*  
CHARLES EDWIN JANVRIN, B.L.S., *Librarian*

The Natural History Survey Division of the State Department of Registration and Education succeeded, in 1917, to the duties of the Illinois State Laboratory of Natural History and the State Entomologist's Office. It is its function to conduct a natural history survey of the state, giving preference to subjects of educational and economic importance; to publish reports covering the entire field of the zoology and botany of the state; to supply natural history specimens to the state educational institutions and the public schools; to investigate the entomology of the state, including all insects dangerous or injurious to agricultural or horticultural crops and plants, to live stock, to nursery trees and plants, to the products of the truck-farm and vegetable garden, to shade-trees and other ornamental vegetation of cities and villages, to the products of mills and warehouses, and all insects dangerous or injurious to the public health; to conduct experiments with methods for the prevention, arrest, abatement, and control of insects injurious to persons or property; to instruct the people, by lecture, demonstration, or bulletin, in the best methods of preserving and protecting their property and health against injuries by insects; and to publish articles on the injurious and beneficial insects of the state.

Its offices and collections are in the Natural History Building of the University and in the Entomology Building, originally provided for the State Entomologist. Its experimental equipment is in the latter building and in the Vivarium of the University, and its equipment for field biology is mainly on the Illinois River at Havana. It has also three field stations for economic entomology—each adequately equipped for field work and life history studies in the three sections of the state—established at Rockford, Urbana, and Carbondale respectively.

The bulletins of the Survey are published in continuation of both the bulletin of the Illinois State Laboratory of Natural History and the reports of the State Entomologist.

The library of the Survey, containing 63,000 books and pamphlets, and its zoological collections, which include 375,000 pinned insects, 26,000 bottles of insects in alcohol, and over 200,000 Illinois fishes, are available to instructors and students of the University for purposes of reference and study.

# STATE WATER SURVEY

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## COMMITTEE

FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*  
KENDRIC C BABCOCK, Ph.D., LL.D., *Dean, College of Liberal Arts and Sciences*  
WILLIAM A NOYES, Ph.D., LL.D., *Professor Chemistry, University of Illinois*  
JOHN W ALVORD, C.E., *Consulting Engineer, Chicago.*

## STAFF

EDWARD BARTOW, Ph.D., *Chief*  
GEORGE CONRAD HABERMEYER, B.S., *Engineer*  
GERALD CLIFFORD BAKER, M.S., *Chemist*  
ROBERT EDMAN GREENFIELD, A.M., *Bacteriologist*  
MARGARET CAMPBELL PERRY, A.M., *Bacteriologist*  
CARL CLARENCE LARSON, B.S., *Chemist*  
GAIL PHILLIPS EDWARDS, B.S., *Chemist*  
A A BRENSKY, B.S., *Engineer*  
BERTRAM FEUER, B.S., *Assistant*  
SARAH E SCROGIN, *University Stenographer*

The State Water Survey Division of the State Department of Registration and Education has succeeded to the duties of the Illinois State Water Survey, which had been organized in the Department of Chemistry of the University of Illinois in 1895. Offices and special laboratories are maintained in the Chemistry Building of the University of Illinois.

A chemical survey of the waters of the State was begun by the State Water Survey in the latter part of September, 1895. In 1897 the legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the State. In 1911 the legislature made an increased appropriation and imposed additional duties on the State Water Survey.

The Survey had collected data concerning water supplies and sewer systems and had surveyed many watersheds.

According to the administrative code The State Water Survey Division cooperating with other Divisions of the Department, is to investigate and study the natural resources of the State, to prepare plans for their conservation and development, to cooperate with and advise Departments having administrative powers and duties relating to the natural resources of the State, to cooperate with similar Departments in other states and with the United States government, to study the geological formation of the State with reference to its resources in mineral and artesian water, to collect facts and data concerning the water resources of the State, to determine standards of purity for drinking water for the various sections of the State, to publish from time to time the results of its investigations of the waters of the State to the end that the available water resources may be better known and that the welfare of the people in the various communities may be conserved, to make analyses of samples of water from municipal or private sources, to consider and decide all matters pertaining to water and water resources and allied investigational and scientific research, to cooperate with the University of Illinois in the use of scientific staff and equipment, and to cooperate with the various Departments in research, investigational, and scientific work, useful in the prosecution of the work of any Department.

# STATE GEOLOGICAL SURVEY

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FRANCIS W SHEPARDSON, A.M., LL.D., *Director, Department of Registration and Education*  
KENDRIC C BABCOCK, Ph.D., LL.D., *Dean, University of Illinois*  
ROLLIN D SALISBURY, A.M., LL.D., *University of Chicago*

## STAFF

FRANK WALBRIDGE DEWOLF, B.S., *Chief, Urbana*  
EDWARD BARTOW, Ph.D., *Consulting Chemist in Water Analysis, University of Illinois*  
ULYSSES SHERMAN GRANT, Ph.D., *Consulting Geologist in Lead and Zinc Studies, Northwestern University*  
SAMUEL WILSON PARR, M.S., *Consulting Chemist in Coal Investigations, University of Illinois*  
EDWARD WIGHT WASHBURN, Ph.D., *Consulting Ceramic Engineer, University of Illinois*  
CULLEN WARNER PARMELEE, B.Sc., *Consulting Ceramic Engineer, University of Illinois*  
THOMAS EDMUND SAVAGE,<sup>1</sup> Ph.D., *Geologist, University of Illinois*  
STUART WELLER,<sup>1</sup> Ph.D., *Geologist, University of Chicago*  
NELLIE O BARRETT, B.S., *Assistant Geologist, Urbana*  
HENRIETTA CHRISTENSON, B.S., *Assistant Geologist, Urbana*  
LOUIS AUBREY MYLIUS, S.B., E.M., *Geologist, Urbana*  
FRANK KREY, B.S., *Geologist, Urbana*  
MORRIS MORGAN LEIGHTON,<sup>1</sup> Ph.D., *Geologist, Urbana*  
HAROLD EUGENE CULVER,<sup>1</sup> Ph.M., *Geologist, Urbana*  
DOUGLAS MOORE COLLINGWOOD, S.B., *Geologist, Urbana*  
LOUIS W CURRIER,<sup>1</sup> B.S., *Geologist, Northwestern University*  
DANIEL JEROME FISHER,<sup>1</sup> B.S., *Assistant Geologist, University of Chicago*  
RUSSELL S KNAPPEN,<sup>1</sup> B.S., *Geologist, University of Chicago*  
MARVIN WELLER,<sup>1</sup> *Assistant Geologist, University of Chicago*  
J EVARTS LAMAR,<sup>1</sup> *Assistant Geologist, University of Chicago*  
WILLIAM ALBERT DUNKLEY, B.S., *Gas Engineer, Urbana*  
JUSTA M LINDGREN, A.M., *Chemist, Urbana*  
GEORGE WELLINGTON PICKELS,<sup>1</sup> C.E., *Drainage Engineer, University of Illinois, Urbana*  
CHAUNCEY B SCHMELTZER,<sup>1</sup> B.S., *Assistant Drainage Engineer, University of Illinois*

In carrying out the primary purpose of the organization, field parties make investigations of oil, clay, coal, stone, artesian water, cement materials, road materials, and general scientific problems. They also conduct surveys for the completion of topographic and geologic maps of the State, in part in cooperation with the United States Geological Survey. Topographic surveys have been completed for almost 30 per cent of the State. Lawrence, Hardin, Randolph, and McDonough counties were added recently to the list of maps which are being made by combining and republishing the atlas sheets in county units.

To date fifty-four volumes, fifteen of them belonging to the Mining Investigations Series, aggregating more than 6,500 pages, have been published, as well as numerous drainage, topographic, structural, and geologic maps.

During the war period Survey investigations were directed to many specific problems of considerable importance, bearing on the ability of the country to maintain essential industries. Much of this work has proved to be of permanent value. During the present biennium, and since the close of the war, special attention is being given to the study of

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<sup>1</sup> Part-time employees.

available materials for use in constructing highways, according to the hard-road program which is being fostered by State and National Governments. In pre-war times much of the material used in Illinois was shipped into the State from Wisconsin and Indiana. The normal output would not begin to meet present requirements of a stimulated road program; and so special attention is being given to the search for quarry sites and gravel pits where suitable material may be produced close to transportation and particularly to the routes of the proposed highways. Another new and special investigation relates to the status of reclamation of overflowed lands in the State. Several thousand square miles remain to be reclaimed. The chief difficulties have been legal rather than physical, but the present investigation aims to determine the various difficulties and the possible remedies, and to lead to a State policy with regard to this important subject.

The excellent offices and laboratory quarters provided by the University in the Ceramics Building are well equipped for the conduct of the work of the Survey. Thousands of drill records, detailed mine notes, coal analyses, and other data on economic resources of Illinois form an active and growing collection which is invaluable and demands careful permanent preservation. From it is drawn much of our knowledge of the geology and mineral resources of the State.

Under an agreement between the College of Engineering, the United States Bureau of Mines, and the State Geological Survey Division, a station has been located at Urbana for a cooperative investigation of the Illinois mining industry, and the various agencies contribute men and funds for investigations under an agreed program.

# THE BOARD OF EXAMINERS IN ACCOUNTANCY

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EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY (on leave)  
DAVID KINLEY, Ph.D., LL.D., ACTING PRESIDENT

## BOARD OF EXAMINERS

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ALBERT T BACON, C.P.A., *Secretary*, Chicago  
BARRY GILBERT, LL.B., Chicago

## UNIVERSITY COMMITTEE

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CHARLES MAXWELL MCCONN, A.M., *Secretary*  
HENRY WINTHROP BALLANTINE, A.B., LL.B.

By a law passed in 1903 the State University is made an examining board of applicants for certificates as certified public accountants. To carry out the provisions of the law the Board of Trustees has appointed a board of three examiners to prepare, conduct, and grade examinations, and a University committee to conduct the routine work. Under the law one examination must be held each year in May, but examinations have been held also in November or December of each year in which there were a sufficient number of applicants. All the examinations thus far given have been held in the city of Chicago.

Applicants for the certificate of Certified Public Accountant are required to pass examinations in the theory of accounts, commercial law, auditing, and practical accounting.

The Illinois Society of Certified Public Accountants offers annually a gold medal and a silver medal to be awarded to the persons passing the C. P. A. examination with the highest total marking in all subjects and with the second highest total marking in all subjects respectively.

# COOPERATIVE INVESTIGATION OF PROBLEMS OF ILLINOIS MIN- ERAL INDUSTRIES

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EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY (on leave)  
DAVID KINLEY, Ph.D., LL.D., ACTING PRESIDENT

## STAFF

### Engineering Experiment Station

CHARLES RUSS RICHARDS, M.E., M.M.E., *Director*  
HARRY HARKNESS STOEK, B.S., E.M., *Professor of Mining Engineering*  
JAMES RUSSELL FLEMING, E.M., *Research Associate in Mining Engineering*

### State Geological Survey

FRANK WALBRIDGE DEWOLF, B.S., *Chief*  
WILLIAM ALBERT DUNKLEY, B.S., *Gas Engineer*  
LEWIS AUBREY MYLIUS, E.M., *Geologist*

### United States Bureau of Mines

VAN H MANNING, A.B., *Director*, Washington, D. C.  
GEORGE S RICE, E.M., *Chief Mining Engineer*, Washington, D. C.  
DORSEY A LYON, Ph.D., *Supervisor of Stations*, Washington, D. C.  
WILLIAM W ODELL, B.S., *Illuminating Gas Engineer, Acting Superintendent*, Urbana, Illinois  
JULIUS J BOURQUIN, B.S., *Mining Engineer*, Urbana, Illinois  
THOMAS FRASER, B.S., *Assistant Engineer*, Urbana, Illinois  
HARRY FAGAN YANCEY, B.S., M.S., *Chemist*, Urbana, Illinois

The Engineering Experiment Station, through the Department of mining engineering of the University of Illinois, the State Geological Survey, and the United States Bureau of Mines are cooperating throughout the State in investigations and dissemination of information, with a view to improving conditions in the mining, quarrying, metallurgical, and other mineral industries, safeguarding life among employees, preventing unnecessary waste of resources, and otherwise contributing to the advancement of these industries, under authority granted by the Forty-seventh General Assembly.

The University, through the Engineering Experiment Station, furnishes offices and laboratory facilities for the Bureau in Urbana, and takes part, through the Department of Mining Engineering, both in field work and in publication.

The State Geological Survey adds to the cooperation a staff of geologists who are giving particular attention to the mineral resources of the State and other geological problems.

The United States Bureau of Mines has established a mining experiment station at Urbana, with offices in the Ceramic Engineering Building, which are headquarters for the technical staff of Bureau engineers working in this district.

Through the cooperation of the three contracting parties, a staff of trained engineers, geologists, and metallurgists is at the disposal of the mining and metallurgical industries of Illinois.





PART VII  
LIST OF STUDENTS, ETC.  
(1919-1920)



# LIST OF STUDENTS, 1919-20

## THE GRADUATE SCHOOL

Adams, Elmer Wade—Organic Chemistry B.S., 1919	SS <sup>1</sup> * † Macomb
Allen, Louis—French A.B., A.M., 1913, 1915	* † Clinton
Allen, Marie Trimble—Mathematics A.B. ( <i>Indiana Univ.</i> ), 1912	* † Bainbridge, Indiana
Allison, Donald Mahaney—Architecture A.B. ( <i>Carnegie Inst. of Technology</i> ), 1911	* † Urbana
Allison, Worth Arthur—Animal Husbandry B.S., A.B., M.S., 1916, 1917	* † Charleston
Ambrose, Arthur Samuel—Dairy Chemistry B.S., 1914	* † Urbana
Anderson, Birdina Margueritte—History A.B., 1918	SS Urbana
Anderson, Chester Reed—English A.B. ( <i>Hedding Coll.</i> ), 1918	* † Camden
Anderson, Margaret Louise—English A.B. ( <i>Knox Coll.</i> ), 1917	* Galesburg
Andrews, Harry Lee—Zoology A.B., A.M., 1916, 1919	SS Kansas City, Missouri
Arguelles, Angel Severo—Chemistry B.S., 1909	* Batangas, Philippine Islands
Armour, Charles Ralph—Education B.S. ( <i>Iowa State Coll.</i> ), 1915	SS Rockford
Arms, Ray Walter—Mining and Metallurgy Engineering E.M. ( <i>Ohio State Univ.</i> ), 1912	* † Urbana
Armstrong, Beulah May—Mathematics A.B. ( <i>Baker Univ.</i> ), 1917	* † Hutchinson, Kansas
Arnold, Rossleene Merle—Physiological Chemistry A.B. ( <i>Oberlin Coll.</i> ), 1916	* Oberlin, Ohio
M.S., 1918	* † Urbana
Atwood, Charles Austin—Animal Husbandry B.S., 1913	* † Urbana
Austin, James Curtiss—Latin A.B. ( <i>Syracuse Univ.</i> ), 1916	* † Urbana
A.M., 1919	
Austin, Marion Jewett—English A.B. ( <i>Illinois Wesleyan Univ.</i> ), 1918	* † Bloomington
A.M., 1919	
Austin, Miner Manly—Industrial Chemistry A.B. ( <i>Lawrence Coll.</i> ), 1916	
A.M., 1918	SS * † Waterloo, Wisconsin
Bacon, Robert Hamilton—Electrical Engineering B.S., 1916	* † Plainesdale, Michigan
Bailey, Dortha Bessie—Chemistry A.B. ( <i>Oberlin Coll.</i> ), 1918	* † Elyria, Ohio
Baily, Henry Heaton—Economics Ph.B. ( <i>Univ. of Chicago</i> ), 1911	SS * † Urbana
Baker, Gerald Clifford—Chemistry A.B., M.S., 1917, 1918	* † Bement
Baker, Jesse Allen—Chemistry B.S., M.S. ( <i>Denison Univ.</i> ), 1907, 1908	* † Indianola, Iowa
Bamsberger, Velda Christena—Education A.B., A.M., 1918, 1919	* † Urbana
Bane, Juliet Lita—Education B.S., 1912	
A.M. ( <i>Univ. of Chicago</i> ), 1919	SS Pontiac
Barber, Julia Minnetta—English A.B., A.M., 1913, 1915	† LaFox
Barnes, Clifton Eugene—Chemistry B.S., 1919	SS * † Mt. Carmel
Barnes, Otis Avery—Chemistry B.S., M.S., 1916, 1918	SS * † Urbana
Barnett, George Rockwell—Chemistry B.S. ( <i>Monmouth Coll.</i> ), 1918	† Peoria
Baron, Anette—Psychology A.B. ( <i>Illinois Wesleyan Univ.</i> ), 1918	* † Lyon, France
Barry, Jenniss Eulalia—Economics A.B., 1918	† Champaign
Baysinger, Walter George—Animal Husbandry B.S., 1919	SS * † Aurora

\* † Attendance first semester indicated by the asterisk (\*); second semester by the dagger (†).

<sup>1</sup> Summer Session.

<sup>2</sup> Candidate for professional degree in engineering.

Benson, Adolph Martin—German A.B. ( <i>Augustana Coll.</i> ), 1916 A.M., 1919	SS	Moline
Berdahl, Clarence Arthur—Political Science A.B. ( <i>St. Olaf Coll.</i> ), 1914 A.M. ( <i>Univ. of S. Dakota</i> ), 1917		* † Sioux Falls, South Dakota
Beyer, Elizabeth—Education A.B., 1916		† Chicago
Bingen, William Joseph—Hydraulic and Sanitary Engineering B.S., C.E. ( <i>Univ. of Minnesota</i> ), 1912, 1913		* † Audover, South Dakota
Black, Howard Benjamin—Education B.S. ( <i>Baldwin-Wallace Coll.</i> ), 1911	SS	Mattoon
Blain, Walter Leroy—Botany A.B. ( <i>Wabash Coll.</i> ), 1916		* † Columbia City, Indiana
Bockius, Doris von Eisen—Chemistry B.S. ( <i>Rockford Coll.</i> ), 1917		* † Chicago
Bonnen, Clarence Alfred—Farm Organization and Management 130½ hrs. ( <i>Univ. of Illinois</i> )		† Gibson City
Booth, Lucy Hamner—History A.B. ( <i>Mt. Holyoke Coll.</i> ), 1919		* † Syracuse, New York
Bosman, Vernon—Chemical Technology A.B., A.M. ( <i>Univ. of Cape Town</i> ), 1917, 1918		† Cape Town, South Africa
Boughton, Thomas Harris—Pathology B.S., M.S. ( <i>Univ. of Chicago</i> ), 1903, 1904 M.D. ( <i>Rush Medical College</i> ), 1906	SS	* † Wilmette
Bowden, Bernard Ray—Political Science Ph.B., Ph.M. ( <i>Univ. of Wisconsin</i> ), 1918	SS	Waterloo
Bowman, Mabel—English A.B., 1917	SS	* Danville
Bradley, Manson James—Chemistry A.B., A.M., ( <i>McMasters Univ.</i> ), 1915	SS	* † Toronto, Canada
Brady, George Keyports—English A.B., 1916		* † Champaign
Brede, Lothar Homer—Chemistry B.S., 1919		* † Collinsville
Bredvold, Louis Ignatius—English A.B., A.M. ( <i>Univ. of Minnesota</i> ), 1909, 1910		* † Urbana
Brensky, Albert Abraham—Civil Engineering B.S., 1919		* † Chicago
Brett, Axel—Philosophy A.B. ( <i>Gustavus Adolphus Coll.</i> ), 1912 A.M. ( <i>Univ. of Minnesota</i> ), 1914		* † Urbana
Bright, Leslie Orville—Education A.B., 1915	SS	Mt. Carmel
Brill, Jesse Hugo—Education A.B. ( <i>Miami Univ.</i> ), 1914	SS	St. Clairsville, Ohio
Brooks, Viola—History A.B., A.M., 1917, 1918	SS	Urbana
Brown, Bruce Keith—Chemistry B.S., 1918	SS	* Chicago
Brown, Hugh Alexander <sup>1</sup> —Electrical Engineering B.S., 1911		* † State College, Pennsylvania
Brown, John Bernis—Chemistry B.S., M.S., 1915, 1917		* † Rock Falls
Brown, Pembroke Holcomb—Economics A.B., A.M., 1915, 1917		* Urbana
Brown, Rex L.—Theoretical and Applied Mechanics B.S. ( <i>Univ. of Kansas</i> ), 1919		* † Oklahoma City, Oklahoma
Brown, Victor Israel—Education A.B., 1919	SS	Champaign
Brunson, Arthur Maxwell—Agronomy B.S., M.S., 1913, 1919		† Urbana
Burke, Mary Kathleen—Chemistry A.B. ( <i>Randolph Macon Coll.</i> ), 1917		* Carlinville
Burlison, William Leonidas—Botany B.S. ( <i>Univ. of Oklahoma</i> ), 1905 M.S., Ph.D., 1908, 1915		† Urbana
Burnett, Waldo Briggs—Chemistry A.B. ( <i>Southern Methodist Univ.</i> ), 1919		† Dallas, Texas
Bussell, Nellie Eileen—Education A.B. ( <i>Univ. of Wisconsin</i> ), 1913	SS	Urbana
Buswell, Constance Anna—English A.B. ( <i>Iowa Teachers' Coll.</i> ), 1916		* † Cedar Falls, Iowa
Byrd, Paul Jones—Botany A.B. ( <i>Wabash College</i> ), 1913		* † Crawfordsville, Indiana
Campbell, Allan Berry—Electrical Engineering B.S., 1909		* † Ames, Iowa
Campbell, Ethelred Erasmus Adolphus—Organic Chemistry A.B., M.S., 1918, 1919	SS	Jamaica, British West Indies
Cannon, William Dail—Electrical Engineering B.S. ( <i>Delaware Coll.</i> ), 1919		* † Bridgeville, Delaware
Capps, Arlie Glenn—Education B.S., A.M. ( <i>Univ. of Missouri</i> ), 1916, 1917	SS	* † Urbana

<sup>1</sup>Candidate for professional degree in engineering.

Carrick, Leo Lehr—Chemistry B.S., A.B., M.S. ( <i>Valparaiso Univ.</i> ) 1909, 1910, 1911 A.M. ( <i>Indiana Univ.</i> ), 1915					
Carry, Louis Joseph Charles Seraphim—French Bes. L. ( <i>Secondary School Institution, Bescancon</i> )	SS	*	†	Valonne, France	
Cheng, Kok Marr—Political Science A.B. ( <i>Soochow Univ.</i> ), 1917	SS	*	†	Hongkong, China	
Cheo, Teh Hsi—Transportation A.B. ( <i>Univ. of Nanking</i> ), 1915		*	†	Nanking, China	
Cherf, John Francis—Latin A.B. ( <i>St. Procopius Coll.</i> ), 1915	SS			Antigo, Wisconsin	
Chiles, Howard Marion—Chemistry B.S., 1917		*	†	Carlinville	
Chow, Tseng Kwai—Ceramics B.S. ( <i>Peking Government Univ.</i> ), 1919		*	†	Shanghai, China	
Christman, Adam Arthur—Chemistry B.S. ( <i>Grinnell Coll.</i> ), 1917		*	†	Shannon	
Claycomb, George Blacklane—Zoology Ph.B. ( <i>Adrian Coll.</i> ), 1909 M.S. ( <i>Univ. of Chicago</i> ), 1914	SS			Champaign	
Clem, Orlie Martin—Education A.B., 1918	SS			Benton	
Clippinger, Frank Warren—English A.B. ( <i>Wabash Coll.</i> ), 1916 A.M., 1917		*	†	Dayton, Ohio	
Clutter, Oswin Ray—Physiological Chemistry Ph.B. ( <i>Grove City Coll.</i> ), 1909 M.S. ( <i>Ohio State Univ.</i> ), 1913		*	†	New Concord, Ohio	
Colby, Ralph—English A.M., A.B. ( <i>University of Minnesota</i> ), 1916, 1917		*	†	Minneapolis, Minnesota	
Coleman, George Hopkins—Organic Chemistry B.S. ( <i>Greenville Coll.</i> ), 1915 M.S., 1919	SS	*	†	Champaign	
Colmey, Duane Campbell—Physics A.B., 1918	SS	*	†	Chicago	
Colvin, Carl—Education B.S., 1912	SS	*	†	Urbana	
Connell, Edwin Lewis <sup>1</sup> —Electrical Engineering B.S., 1912		*	†	Cleveland, Ohio	
Cox, Flemin Willet—Education A.B., 1908	SS			Flora	
Cox, Gerald Judy—Physiological Chemistry B.S., 1919	SS			Urbana	
Craig, Ollison <sup>1</sup> —Mechanical Engineering B.S., 1909		*	†	Decatur	
Crecraft, Gordon Randolph—English A.B. ( <i>Miami Univ.</i> ), 1918		*	†	Oxford, Ohio	
Crooks, Harold Fordyce—Geology A.B., M.S., 1916, 1918		*		Oak Park	
Dacanay, Jose Querubin—Agronomy A.B. ( <i>Univ. of Philippines</i> ), 1912		*	†	Binalonan, Philippine Islands	
Dake, Le Roy Gilbert—Economics A.B., 1903	SS			St. Louis, Missouri	
Darling, Lavern Henry—History A.B. ( <i>Eureka Coll.</i> ), 1894	SS			Abingdon	
Dawson, Louis Edward—Chemistry 143 hrs. ( <i>Univ. of Illinois</i> )				† Jacksonville	
Day, Anna Edith—English A.B. ( <i>Illinois Coll.</i> ), 1907 A.M., 1908	SS	*	†	Jacksonville	
Day, Harry Warren—Horticulture B.S., 1917		*		Shelbyville	
Dietz, John Wamser—Economics A.B., 1918		*		Beileville	
Dimmick, Mildred—French A.B. ( <i>Ohio Wesleyan</i> ), 1912		*	†	Cleveland, Ohio	
Dobbin, Mariola—Mathematics A.B. ( <i>Catholic Univ. of America</i> ), 1911 A.M. ( <i>Univ. of Wisconsin</i> ), 1912	SS			Sinsinawa, Wisconsin	
Dolch, Edward William, Jr.—Education A.B. ( <i>Washington Univ.</i> ), 1915 A.M. ( <i>Univ. of Wisconsin</i> ), 1918				† Urbana	
Doner, Ralph Douglas—Physics B.S. ( <i>Univ. of Chicago</i> ), 1917		*	†	Gorman, South Dakota	
Doty, Helene Eleanore—Economics A.B., 1918		*	†	Wilmette	
Dougherty, Miriam Wood—Bacteriology B.S. ( <i>Monmouth Coll.</i> ), 1916		*	†	Monmouth	
Driggs, Frank Howard—Chemistry A.B. ( <i>Baker Univ.</i> ), 1917		*	†	Baldwin, Kansas	
Drobisch, Mollie Moore—History A.B., 1919	SS			Decatur	

<sup>1</sup> Candidate for professional degree in engineering.

- Dunbar, Louise Burnham—History  
A.B. (*Mt. Holyoke Coll.*), 1916  
A.M., 1917
- Dungan, George Harlan—Botany  
B.S., 1917
- Dunn, Harold Houghton—Railway Electrical Engineering  
B.S., M.S., 1908, 1915
- Dunn, Max Shaw—Chemistry  
A.B. (*Simpson Coll.*), 1916  
M.S., 1918
- Dyar, Herbert Lee—Education  
A.B. (*Eureka Coll.*), 1906
- Dzeng, Ven Ping—Organic Chemistry  
B.S., M.S. (*Colgate Univ.*), 1918
- Eckstein, Henry Charles—Animal Nutrition  
A.B., M.S., 1915, 1918
- Edington, William Edmund—Mathematics  
A.B. (*Indiana State Normal*), 1909  
A.M., 1919
- Edwards, Gail Phillips—Chemistry  
B.S., 1918
- Elliott, Foster Floyd—Dairy Husbandry  
B.S. (*Univ. of Kentucky*), 1919
- Engle, Earl Agard—Chemistry  
A.B., A.M. (*Univ. of Denver*), 1918, 1919
- Erfmeyer, Clarence Esher—Education  
A.B. (*North-Western Coll.*), 1918
- Evans, John Edward—Mechanical Engineering  
B.S., 1912
- Ewing, William Thomas—Education  
B.S. (*Beloit Coll.*), 1912
- Fahrnkopf, Harrison Frederick Theodore—Agronomy  
B.S., 1913
- Fairman, Charles—History  
A.B., 1918
- Fajardo y Maymir, Euripides<sup>1</sup>—Civil Engineering  
B.S., 1913
- Fazel, Charles Stever—Physics  
A.B. (*Fairmount Coll.*), 1914  
A.M., 1915
- Felbeck, George Theodore—Mechanical Engineering  
B.S., 1919
- Feuer, Bertram—Chemistry  
B.S., 1919
- Finkelnburg, Addison Youmans—Chemistry  
A.B. (*Univ. of Montana*), 1917
- Fisher, Forrest Addison—Agronomy  
B.S., 1911
- Fitz Gerald, Thomas Austin—Spanish  
A.B., (*Univ. of Missouri*), 1913
- Fitzpatrick, James Levi—History  
A.B. (*Augustana Coll.*), 1919
- Flanery, Charles Clarence—Animal Husbandry  
B.S. (*Univ. of Tennessee*), 1915
- Fleisig, Anselm Joseph—Mathematics  
A.B. (*St. Procopius Coll.*), 1911
- Fleming, Edith Doane—English  
A.B. (*Southwestern Coll.*), 1917
- Fleming, Denna Frank—Political Science  
A.B., 1916
- Foley, Margaret Ebert—Romance Languages  
A.B. (*Ohio Wesleyan Univ.*), 1919
- Francis, Helen Elizabeth—History  
A.B., A.M., 1916, 1917
- French, Beals Ensign Litchfield—Chemistry  
B.S. (*Alfred Univ.*), 1913
- French, Herbert Ephraim—Organic Chemistry  
A.B. (*Morningside Coll.*), 1915  
A.M., 1917
- French, Mrs. Cornelia McBurney—History  
A.B. (*Morningside Coll.*), 1917
- Frison, Theodore Henry—Entomology  
A.B., 1918
- Fritts, Edwin Coulthard—Physics  
B.S. (*Georgetown Coll.*), 1917
- Funk, Ruth Scovell—Bacteriology  
B.S., 1917
- Furst, Mildred—English  
A.B., 1919
- Gage, Jay Howard—Entomology  
A.B., M.S., 1916, 1919
- Gager, Gertrude Dele—Spanish  
A.B. (*Western Reserve Univ.*), 1913
- SS \* † *White River Junction, Vermont*
- \* † *Indianapolis, Indiana*
- \* † *Urbana*
- \* † *Milo, Iowa*
- SS *Villa Grove*
- \* *Len-Che City, China*
- \* † *Peoria*
- SS \* † *Urbana*
- \* † *Chicago*
- \* † *Eubank, Kentucky*
- \* † *Denver, Colorado*
- \* † *St. Joseph, Missouri*
- \* † *New York City, New York*
- SS *Freeport*
- \* *Urbana*
- SS \* *Urbana*
- \* † *Santiago, Cuba*
- \* † *Wichita, Kansas*
- \* † *Kansas City, Missouri*
- SS \* *Chicago*
- † *Thompson Falls, Montana*
- \* † *Urbana*
- SS *Gerald, Missouri*
- \* † *Rock Island*
- \* † *Berea, Kentucky*
- SS *Cleveland, Ohio*
- \* † *Sedgwick, Kansas*
- SS *Paris*
- † *Zanesville, Ohio*
- SS *Wyoming*
- SS *Ellicottville, New York*
- SS \* † *Urbana*
- SS \* † *Urbana*
- SS \* † *Urbana*
- SS \* † *Lexington, Kentucky*
- \* † *Urbana*
- \* *Adair, Iowa*
- \* † *Texico*
- \* † *Cleveland, Ohio*

<sup>1</sup> Candidate for professional degree in engineering.

- Galster, Augusta Emilie—Economics  
A.B., 1918
- Garvin, Mary Beatrice—History  
A.B., 1917
- Ginnings, Paul Meade—Chemistry  
B.S., 1919
- Godlove, Isaac Hahn—Organic Chemistry  
B.S., A.M. (*Washington Univ.*), 1914, 1915
- Goodman, Byne Frances—History  
A.B., A.M., 1912, 1913
- Green, Charles Francis—Mathematics  
A.B., A.M. (*Univ. of Kansas*), 1914, 1915
- Greene, James Henry—Education  
B.S., M.S., 1908, 1915
- Greenfield, Robert Edman—Sanitary Chemistry  
A.B. (*Kansas Univ.*), 1914  
A.M., 1916
- Gregory, Abby Linsley—Latin  
A.B. (*Rockford Coll.*), 1919
- Griffith, Coleman Roberts—Psychology  
A.B. (*Greenville Coll.*), 1915
- Griffith, Wendell Horace—Chemistry  
B.S. (*Greenville Coll.*), 1917  
M.S., 1919
- Grisemer, Walter—Mathematics  
A.B., 1918
- Grove, Pearl Forest—Botany  
A.B., 1913
- Guba, Emil Frederick—Botany  
B.S. (*Massachusetts Agricultural Coll.*), 1919
- Guernsey, Fredrika Grace—English  
A.B. (*Hedding Coll.*), 1919
- Guller, Gertrude Louise—Latin  
A.B. (*James Milliken Univ.*), 1919
- Gunton, John Aberdeen—Chemistry  
A.B., A.M. (*McMasters Univ.*), 1916, 1917
- Gwinn, Paul Curtis—Chemistry  
A.B. (*Indiana State Normal*), 1917
- Hackleman, Jay Courtland—Farm Crops  
B.S. (*Purdue Univ.*), 1910  
A.M. (*Univ. of Missouri*), 1912
- Hackley, Elizabeth Pursel—Education  
A.B., 1917
- Hague, Florence Sander—Zoology  
A.B., B.S., M.S. (*Univ. of Kansas*)  
1911, 1913, 1914
- Hall, Ada Roberta—Zoology  
A.B., A.M. (*Univ. of Oregon*), 1917, 1919
- Hall, Edward Knight—Animal Husbandry  
B.S., M.S., 1918, 1919
- Hall, Joseph Lowe—Chemistry  
B.S., 1919
- Ham, Lloyd Blinn—Physics  
A.B. (*Bates Coll.*), 1914
- Hamilton, Thomas Sherman—Chemistry  
B.S., 1917
- Hansen, Roy—Agronomy  
B.S., M.S., 1914, 1918
- Hare, Fay Charles—Entomology  
A.B., 1913
- Harnack, Vernon Leslie—Chemistry  
B.S., 1919
- Harrah, Ezra Clarence—Zoology  
A.B. (*Southwestern Coll.*), 1913  
A.M., 1919
- Harris, Benjamin Raczkowski—Chemistry  
B.S. (*New York City Coll.*), 1917
- Harrison, Bruce Magill—Zoology  
B.S., M.S., 1905, 1908
- Harshbarger, Frances—English  
A.B. (*Illinois Woman's Coll.*), 1910
- Hatfield, Margaret—Home Economics  
A.B. (*Univ. of Toronto*), 1916
- Hawkins, James Alexander—Chemistry  
A.B. (*Amherst Coll.*), 1917
- Hayes, Fred Elmer—History  
A.B., A.M., (*Univ. of Nebraska*), 1908, 1916
- Heidler, Joseph Bunn—English  
A.B., 1918
- Heinekamp, Walter John Richard—Pharmacology  
B.S. (*Univ. of Illinois, Coll. of Medicine*),  
1919
- Henry, Mary Anne—Psychology  
A.B., 1915
- \* † *Tower Hill*
- SS \* *Champaign*
- \* † *Macomb*
- \* † *St. Louis, Missouri*
- † *Champaign*
- \* † *Urbana*
- SS \* † *Urbana*
- \* † *Sabetha, Kansas*
- \* † *Rockford*
- \* † *Champaign*
- SS *Greenville*
- \* † *Bunker Hill, Indiana*
- SS *Kirkwood*
- \* † *New Bedford, Massachusetts*
- \* † *Abingdon*
- \* *Decatur*
- SS \* † *Urbana*
- SS \* † *Terre Haute, Indiana*
- \* † *Urbana*
- \* † *Urbana*
- \* † *Urbana*
- \* † *Portland, Oregon*
- SS *Ladybrand, South Africa*
- \* *Sullivan*
- \* † *Cedar Grove, Maine*
- SS \* † *Paris*
- \* *Rock Island*
- SS *Gilman*
- SS \* *Urbana*
- SS \* † *Urbana*
- \* † *Griswold, Connecticut*
- \* † *Urbana*
- SS *Ivesdale*
- \* † *Evanston*
- \* † *Springfield, Massachusetts*
- \* † *Urbana*
- \* † *Springfield*
- SS *Chicago*
- \* † *Paloma*

- Hersh, Amos Henry—Experimental Zoology  
A.B., A.M., (*Franklin and Marshall Coll.*)  
1914, 1915 \*† Lancaster, Pennsylvania
- Hetherington, Duncan Charteris—Zoology  
A.B. (*Colorado College*), 1919 \*† Colorado Springs, Colorado
- Hickok, Frances Louise—English  
A.B. (*Univ. of Michigan*), 1915 \*† Plainwell, Michigan
- Hill, Charles Francis—Experimental Physics  
A.B., A.M., 1914, 1916 \* Urbana
- Hill, Robert McClaughry—Chemistry  
B.S. (*Carthage Coll.*), 1915 \*† Carthage
- Hodnett, Mona Pearl—Latin  
A.B. (*Bates Coll.*), 1916  
A.M., 1918 \*† Danforth, Maine
- Hoelscher, Randolph Philip—Physics  
B.S. (*Purdue Univ.*), 1917 SS Urbana
- Hogan, Charlton Monta—Economics  
A.B., 1918 \*† Champaign
- Hoke, Gladys—Entomology  
B.S. (*Mississippi State Coll. for Women*), 1916 † Como, Mississippi
- Holmes, Oliver Wendell—Agronomy  
B.S., 1918 \*† Greenfield
- Honey, Edwin Earl—Botany  
B.S. (*Cornell Univ.*), 1916 \*† Ithaca, New York
- Hostetler, Joseph Columbus—Economics  
A.B., 1920 † Decatur
- Houghton, Elma—French  
A.B. (*Northwestern Univ.*), 1918 SS Peoria
- Howell, Edward Tillson—Organic Chemistry  
B.S., 1919 SS \*† Dixon
- Huff, James Orton—English  
A.B., A.M., 1911, 1912 SS \*† Urbana
- Huffer, Ralph Craig—Mathematics  
A.B. (*Albion Coll.*), 1918 \*† Muncie, Indiana
- Hufferd, Ralph William—Organic Chemistry  
A.B. (*Washington Univ.*), 1915  
A.M., 1917 SS \*† Urbana
- Humphreys, Florence Miller—English  
A.B. (*Colorado Coll.*), 1912  
A.M. (*Radcliff Coll.*), 1915 \*† Denver, Colorado
- Huntington, Richard Lee—Chemical Engineering  
A.B. (*Univ. of Oklahoma*), 1917 † Enid, Oklahoma
- Huntley, Otto Erskine—Chemistry  
A.B. (*Ilope Coll.*), 1918 \*† Holland, Michigan
- Hyde, Harvey Woolsey—Industrial Chemistry  
B.S., 1919 SS \*† Watertown, New York
- Hyslop, William Henry—Experimental Physics  
A.B. (*Knox Coll.*), 1908  
A.M., 1911 \*† Urbana
- Ingersoll, Arthur William—Organic Chemistry  
B.S., M.S. (*Univ. of Nebraska*), 1917, 1918 \*† Cook, Nebraska
- Ingler, Francis Marion—Education  
A.B., A.M. (*Univ. of Indiana*), 1903, 1906 SS Effingham
- James, Martha May—Latin  
A.B. (*Illinois Wesleyan Univ.*), 1912 SS Bloomington
- Johnson, John Raven—Organic Chemistry  
B.S., 1919 SS \*† Chicago
- Johnson, Olive Beatrice—Chemistry  
B.S. (*Rockford Coll.*), 1914 \*† Duluth, Minnesota
- Jones, William Bristow—English  
A.B., A.M. (*Georgetown Coll.*), 1905 SS \*† Urbana
- Judd, Ella Maurine—History  
A.B. (*Indiana Univ.*), 1918 SS Cisne
- Kammlade, William Garfield—Animal Husbandry  
B.S. (*Univ. of Wisconsin*), 1915  
M.S., 1917 † Sparta, Wisconsin
- Kann, Rufus Maurice—Organic Chemistry  
B.S., 1916 SS Highland
- Katsuyama, Katsujiro—Industrial Chemistry  
B.S. (*Univ. of California*), 1918 SS Fukuoka, Japan
- Keen, Dora—Education  
A.B. (*Georgetown Coll.*), 1916 SS \*† Georgetown, Kentucky
- Keith, Mary Helen—Animal Nutrition  
B.S. (*Mt. Holyoke Coll.*), 1894  
A.M. (*Columbia Univ.*), 1901 † Braintree, Massachusetts
- Kern, John Williams—Chemistry  
A.B. (*Colgate Univ.*), 1904  
A.M. (*Univ. of Syracuse*), 1910 SS Buffalo, New York
- Kienholz, Aaron Raymond—Botany  
B.S. (*North-Western Coll.*), 1917 \*† Big Stone City, South Dakota
- Kimball, Frank Sherman—Chemistry  
B.S., 1918 SS Rockford
- King, William—Economics  
A.B., 1919 SS \*† Dudley



Kirby, Alma Lenore—French A.B. ( <i>Eureka Coll.</i> ), 1916	SS	<i>Eureka</i>
Kirby, Edna Elvira—History A.B. ( <i>Eureka Coll.</i> ), 1916	SS	<i>Eureka</i>
Kirner, Walter Raymond—Chemistry B.S., 1918	SS	* † <i>Chicago</i>
Kitner, William Walter—History A.B. ( <i>Illinois Coll.</i> ), 1917		* † <i>Jacksonville</i>
Klaragard, Sever—Economics A.B. ( <i>St. Olaf Coll.</i> ), 1917		* † <i>Buxton, North Dakota</i>
Klemmedson, Gunnar Sigismund—Economics B.S., 1918		† <i>Champaign</i>
Knight, Abner Richard—Electrical Engineering M.E. ( <i>Ohio State Univ.</i> ), 1909 M.S., 1917		<i>Urbana</i>
Kobayashi, Kaorn—Sociology Degree ( <i>Imperial Univ.</i> ), 1902		* <i>Tokyo, Japan</i>
Kohli, Chet Ram—Chemistry A.B. ( <i>Cornell Univ.</i> ), 1919		* † <i>Jammu, India</i>
Kordenat, Ralph August—Pathology B.S. ( <i>Univ. of Illinois, College of Medicine</i> ), 1919	SS	<i>Oak Park</i>
Kraft, Adolph—Bacteriology B.S. ( <i>Univ. of Illinois, College of Medicine</i> ), 1919	SS	<i>Gilman</i>
Laible, Russell James—Animal Husbandry 131 hrs. ( <i>Univ. of Illinois</i> )		† <i>Freeport</i>
Lamb, John, Jr.—Agronomy B.S., 1918		† <i>Worden</i>
Landis, Paul Missley—English A.B., A.M. ( <i>Franklin and Marshall Coll.</i> ), 1913, 1915		* † <i>Womelsdorf, Pennsylvania</i>
Lange, Paulus John Herman—English A.B. ( <i>Augustana Coll.</i> ), 1918		* † <i>Lime Springs, Iowa</i>
Langley, Wilson Davis—Organic Chemistry B.S., M.S. ( <i>Wesleyan Univ.</i> ), 1918, 1919		* † <i>Erie, Pennsylvania</i>
Lapp, Claude Jerome—Physics A.B. ( <i>Albion Coll.</i> ), 1917	SS	* † <i>Richmond, Michigan</i>
Larson, Carl Clarence—Chemistry B.S., 1918		* † <i>Mazon</i>
Le Gall, Jean Joseph Marie—Chemistry Degree ( <i>Univ. of Rennes</i> ), 1918		* <i>Finistere, France</i>
Leichsenring, Jane Marie—Physiology B.S., 1919		* † <i>Winnetka</i>
Leighty, Wilbur Roy—Chemistry B.S. ( <i>Illinois Wesleyan Univ.</i> ), 1910		† <i>Urbana</i>
Leinbaugh, Howard Munroe—History B.S. ( <i>Knox Coll.</i> ), 1913	SS	<i>Mendon</i>
Leist, Claude—Zoology A.B., 1918		* † <i>Paris</i>
Leisy, Ernest Erwin—English A.B. ( <i>Univ. of Kansas</i> ), 1913 A.M. ( <i>Univ. of Chicago</i> ), 1917		* † <i>Newton, Kansas</i>
Leslie, Madge Campbell—Education A.B., 1917	SS	<i>Champaign</i>
Lewman, Ruth Lorena—Romance Languages A.B. ( <i>Millikin Univ.</i> ), 1915		* † <i>Decatur</i>
Libman, Earl Emanuel—Chemistry B.S., 1916	SS	* † <i>Urbana</i>
Linder, Grace—Education A.B., 1915	SS	<i>Columbus, Ohio</i>
Livingston, George Shaynin—Bacteriology B.S. ( <i>Cornell Univ.</i> ), 1916	SS	* † <i>Chicago</i>
Loomis, John Howard—Agronomy B.S. ( <i>Kansas State Agricultural College</i> ) 1915		* † <i>Peru, Nebraska</i>
Lopez, Manuel Leon—Spanish A.B. ( <i>Ohio Wesleyan Univ.</i> ), 1916 A.M., 1918		* † <i>Champaign</i>
Lougee, Flora Marion—Organic Chemistry A.B. ( <i>Bates Coll.</i> ), 1914		* † <i>Lewiston, Maine</i>
Lowe, Lucretia—English A.B., A.M. ( <i>Radcliffe Coll.</i> ), 1918, 1919		* † <i>Andover, Massachusetts</i>
Luney, Francis Solon—Mechanical Engineering B.S., 1907		* † <i>DeKalb</i>
Lyon, William Riga—Electrical Engineering B.S. ( <i>Worcester Polytechnic Inst.</i> ), 1917		* <i>Worcester, Massachusetts</i>
McAllister, Perry Waldo—Education A.B. ( <i>De Pau Univ.</i> ), 1916	SS	<i>Stendal, Indiana</i>
McCaughy, William Frank—Architecture A.B. ( <i>Carnegie Inst. of Technology</i> ), 1916		* <i>Urbana</i>
McCombs, Frank Harold—Chemistry B.S. ( <i>Wooster Coll.</i> ), 1916		* † <i>Martins Ferry, Ohio</i>

<sup>1</sup> Candidate for professional degree in engineering.

- McCumb, Fred Rogers—Chemistry  
B.S. (*Westminster Coll.*), 1917
- McDougle, Verne Russell—Economics  
A.B. (*Univ. of Wisconsin*), 1916
- McGinnis, Helen Anastasia—Botany  
A.B., 1918
- McGraw, Ella Leona—History  
A.B. (*Washington Univ.*), 1911
- McKenzie, Mrs. Aimee Leffingwell—Romance Languages  
A.B. (*Bryn Mawr Coll.*), 1897
- McKinney, Henry Theodore—Education  
A.B., A.M., 1913, 1915
- Marais, Jacobus Stephanus—Soils  
A.B. (*Univ. of Cape of Good Hope*), 1917
- Marloth, Werner Sigismund—Chemical Technology  
A.B. (*Univ. of Cape Town*), 1919
- Marston, Leslie Ray—Education  
A.B. (*Greenville Coll.*), 1916
- Martin, Frances Theodosia—Chemistry  
B.S. (*Univ. of Wisconsin*), 1918
- Marvel, Carl Shipp—Chemistry  
A.B. (*Illinois Wesleyan Univ.*), 1915  
A.M., 1916
- Matthews, Albert Otto—Chemistry  
A.B., 1918
- Mattoon, Edwin Whitaker—Education  
A.B., 1915
- Maxwell, Raymond John—Education  
A.B., 1918
- Maynard, Milton Monroe—Education  
A.B. (*Univ. of Oklahoma*), 1908
- Mensenkamp, Louis Edward—Mathematics  
A.B., 1916
- Merling, Ruth Evelyn—Organic Chemistry  
B.S., M.S. (*Univ. of Washington*), 1916, 1917
- Middleton, Errol Bathurst—Chemistry  
A.B., 1919
- Miles, Lee Ellis—Botany  
A.B. (*Wabash Coll.*), 1914
- Millar, Russell Ward—Chemistry  
B.S., 1916
- Miller, Earl Joyce—Economics  
A.B. (*Simpson Coll.*), 1916
- Milligan, Adah Elizabeth—English  
A.B. (*Monmouth Coll.*), 1914
- Mirasol, Jose Jison—Agronomy  
B.S., M.S. (*Univ. of Philippines*),  
1915, 1917
- Moore, Harry Albert—Electrical Engineering  
B.S., 1910
- Morrison, Lethe Eleanora—Bacteriology  
A.B., 1919
- Morrison, Olin Dee—History  
A.B. (*Wabash Coll.*), 1915  
A.M. (*Univ. of Indiana*), 1917
- Mosby, Benjamin Harrison—History  
A.B., 1919
- Mundorf, Martin Reuben—Sociology  
A.B., 1918
- Myers, Lena Josephine—English  
A.B., A.M., 1913, 1918
- Naito, Yaso—Electrical Engineering  
Degree (*Tohoku Imperial Univ.*), 1913
- Navias, Louis—Chemistry  
B.S. (*Coll. of City of New York*), 1918
- Neff, Harold Alpha—History  
A.B., 1918
- Neill, Alma Jessie—Physiology  
A.B., A.M., 1913, 1915
- Nelson, Milton Nels—Economics  
A.B., A.M., 1915, 1917
- Nelson, Roy Andrew—Physics  
B.S., (*Knox Coll.*), 1916
- Nevens, William Barbour—Animal Husbandry  
B.S. (*Univ. of Wisconsin*), 1914  
M.S., 1917
- Newburn, Iva Florence—Home Economics  
A.B., 1918
- Nolan, Aretas Wilbur—Education  
A.B. (*Indiana Univ.*), 1905  
M.S. (*West Virginia Univ.*), 1911
- Nolan, Willis James—Entomology  
A.B. (*Western Reserve Univ.*), 1914  
A.M., 1917
- O'Brien, John Anthony—Education  
A.B., A.M. (*St. Viator's Coll.*), 1913, 1915
- \* † *New Wilmington, Pennsylvania*
- SS \* † *Urbana*
- \* † *Chicago*
- SS *St. Louis, Missouri*
- \* † *Urbana*
- SS \* † *Hudgens*
- SS \* † *Transvaal, South Africa*  
† *Cape Town, South Africa*
- \* † *Blanchard, Michigan*
- SS *Michigan City, Indiana*
- SS \* † *Urbana*
- SS *Washington, District of Columbia*
- \* † *Champaign*
- SS *Paris*
- SS *Monmouth*
- SS *Freeport*
- \* † *Ellensburg, Washington*
- SS \* † *Victoria, Texas*
- \* † *Marion, Indiana*
- SS \* † *Mattoon*
- SS \* † *Champaign*
- SS *Monmouth*
- SS \* † *Los Banos, Philippine Islands*
- \* † *Salt Lake City, Utah*
- \* † *Waterloo*
- SS \* *Urbana*
- SS *St. Louis, Missouri*
- SS *Marshall*
- \* † *Quincy*  
† *Onoda, Japan*  
† *Rochester, New York*
- SS *Rochelle*
- SS \* † *Chillicothe*
- \* † *Urbana*
- \* † *Peoria*
- \* † *Urbana*
- \* † *Urbana*
- \* † *Urbana*
- \* *Madison, Ohio*
- SS \* † *Peoria*

- Offutt, Samuel Russell—Civil Engineering  
B.S. (*Colorado Coll.*), 1918
- Okimoto, Saichi—Bacteriology  
Degree (*Tahoka Imperial Univ.*), 1916
- Oldfather, Charles Henry—Latin  
A.B. (*Hanover Coll.*), 1906
- Ondrak, Ambrose Leo—Physics  
A.B. (*St. Procopius Coll.*), 1915
- Osborne, Pauline Theodora—English  
A.B., 1916
- Palmer, Charles Shattuck—Organic Chemistry  
B.S., 1917
- Pasmore, Daniel Frederick—French  
A.B. (*Albion Coll.*), 1913  
A.M., Ph.D., 1914, 1917
- Patterson, Cecil Frederick—Botany  
B.S. (*Univ. of Toronto*), 1918
- Pauli, Adolph Frederick—Latin  
A.B., A.M., 1916, 1917
- Peet, Charles Heman—Chemistry  
A.B. (*Hope Coll.*), 1914
- Perrott, Richard Henry—Education  
A.B., 1916
- Perry, Margaret Campbell—Sanitary Chemistry  
A.B., A.M., 1915, 1917
- Perry, Winifred Almina—Education  
A.B., A.M., 1908, 1914
- Pettit, Harvey Pierson—Mathematics  
A.B. (*Kalamazoo Coll.*), 1914  
A.M. (*Univ. of Kentucky*), 1919
- Pieper, John—Agronomy  
B.S., M.S., 1917
- Porter, Charley Lyman—Botany  
A.B., 1913
- Porter, Philip Kelsey—Chemistry  
A.B. (*Grinnell Coll.*), 1918
- Powell, Sargent Gastman—Organic Chemistry  
B.S., M.S. (*Univ. of Washington*), 1916
- Powers, J. Orin—Education  
A.B., A.M., 1917, 1918
- Prante, Beulah Wise—English  
A.B., 1919
- Ragland, Lewis Washington—Education  
A.B., A.M., 1919
- Raiford, Theodore Ernest—Mathematics  
B.S. (*Earlham Coll.*), 1914
- Raines, Lester Courtney—Psychology  
A.B., 1918
- Ramsay, Crawford John—Education  
A.B., 1917
- Rauchenstein, Emil—Economics  
B.S. (*Univ. of Wisconsin*), 1911
- Rayner, William Horace—Education  
B.S., 1909
- Reed, Cordelia—French  
A.B., A.M., 1918, 1919
- Reed, Ellery Francis—Sociology  
A.B. (*Lenox Coll.*), 1914  
A.M. (*Clark Univ.*), 1918
- Reid, Dwight Logan—Education  
B.S., M.S. (*Univ. of Wisconsin*), 1915, 1918
- Reinsch, Bernhard Paul—Mathematics  
A.B., 1918
- Renich, Mary Emma—Botany  
A.B., A.M., 1911, 1912
- Rice, John Benjamin—Animal Husbandry  
B.S. (*Univ. of Nebraska*), 1915
- Richardson, Clarence Hudson—Mathematics  
B.S. (*Univ. of Kentucky*), 1913  
M.S., 1918
- Richart, Blanche Belle—Education  
A.B., 1918
- Richart, Frank Erwin—Theoretical and Applied Mechanics  
B.S., M.S., 1914, 1915
- Richmond, Thomas Everett—Agronomy  
A.B., M.S. (*Ohio State Univ.*), 1913, 1914
- Ripley, Lewis Bradford—Entomology  
B.S. (*Trinity Coll.*), 1915  
M.S., 1916
- Rizer, John Kentworth—History  
A.B. (*Carthage Coll.*), 1895  
A.M. (*Augustana Coll.*), 1908
- Robinson, Myra Jane—Chemistry  
A.B., 1919
- Robinson, Rodney Potter—Latin  
A.B., A.M. (*Univ. of Missouri*), 1910, 1911
- \* † Bloomfield, Kentucky
- \* † Hiroshima, Japan
- SS Urbana
- SS Lisle
- SS Champaign
- \* † Urbana
- SS St. Paul, Minnesota
- SS \* † Watford, Canada
- \* † Urbana
- † Grand Rapids, Michigan
- SS Champaign
- \* † Urbana
- \* Urbana
- \* † Urbana
- \* † Urbana
- \* † Urbana
- \* † Stuart, Iowa
- SS Seattle, Washington
- SS \* † Urbana
- \* † Quincy
- SS Urbana
- SS Frankfort, Indiana
- SS Urbana
- SS Johnston City
- † Urbana
- SS † Urbana
- SS \* † Covington, Indiana
- \* † Fulton, Missouri
- SS \* † Urbana
- SS \* † Muscatine, Iowa
- SS \* † Clinton
- \* † Urbana
- SS Georgetown, Kentucky
- SS Champaign
- \* Urbana
- \* † Urbana
- SS \* † Glastonbury, Connecticut
- SS \* † Champaign
- \* † Kansas
- \* † Perry, Oklahoma

- Rodkey, Fred Stanley—History  
A.B., A.M. (*Univ. of Kansas*), 1917, 1918
- Rohrer, Frank Philip—German  
A.B., 1917
- Romyn, Anton Eric—Animal Husbandry  
B.S. (*Univ. of Toronto*), 1916
- Root, Lucie Emma—Chemistry  
A.B. (*Oberlin Coll.*), 1917
- Rosecrans, Crandall Zachariah—Mechanical Engineering  
B.S., 1919
- Rosenbach, Joseph Bernhardt—Mathematics  
A.B. (*Univ. of Colorado*), 1917  
A.M., 1919
- Ross, Harry Albert—Economics  
B.S., 1917
- Roth, Walter John—Economics  
B.S. (*Colorado Agricultural Coll.*), 1916  
B.S., 1920
- Ruehe, Harrison August—Bacteriology  
B.S., M.S., 1911, 1916
- Rutherford, Elizabeth Jane—Psychology  
A.B., 1919
- Saelhof, Clarence Charles—Pathology  
B.S. (*Univ. of Illinois, College of Medicine*), 1919
- San Agustin, Gregorio—Animal Husbandry  
D.V.M. (*Univ. of the Philippines*), 1916
- Sargent, Rachel Louisa—Latin  
A.B. (*Bates Coll.*), 1914
- Schmeltzer, Chauncey Brockway—Civil Engineering  
B.S., 1919
- Schmidt, Clarence Carl—Physics  
A.B. (*Cornell Coll.*), 1917
- Schneider, Ralph Fred—Chemistry  
B.S., 1919
- Scholl, Carl A—Animal Husbandry  
B.S. (*Univ. of Alberta*), 1918
- Schoonover, Warren Rippey—Agronomy  
B.S., M.S., 1912, 1916
- Schroeder, Lydia Barnhardine—Latin  
A.B. (*Northwestern Univ.*), 1916
- Schwalbe, William Louis—Theoretical and Applied Mechanics  
B.S. (*Univ. of Wisconsin*), 1911
- Secord, Arthur Wellesley—English  
A.B. (*Greenville Coll.*), 1916
- Segur, John Bartlett—Organic Chemistry  
B.S., 1919
- Seifert, Herbert Frank—Insect Embryology  
A.B., A.M., 1916, 1917
- Seigneur, Jeanne—History  
A.B. (*Illinois Wesleyan Univ.*), 1919
- Seiler, Eleanor Frances—Physics  
A.B., A.M. (*Univ. of Denver*), 1913, 1914  
A.M., 1916
- Sellards, John Armstrong—French  
A.B., 1912
- Seward, Elizabeth Bernice—History  
A.B. (*Illinois Woman's College*), 1919
- Shaffer, Owen Vernon—Chemistry  
B.S. (*Westminster Coll.*), 1915
- Shaw, Hazel Yearsley—Political Science  
A.B., A.M., 1907, 1908
- Shelley, Mary Edna—French  
A.B. (*Buller Coll.*), 1919
- Shelton, George Reed—Chemistry  
A.B. (*Univ. of Chicago*), 1912
- Shepherd, Jean Charlotte—Chemistry  
A.B. (*Univ. of Montana*), 1919
- Short, Lloyd Milton—Political Science  
A.B. (*Knox Coll.*), 1919
- Simmonds, Mattie Frances—English  
A.B. (*Illinois Wesleyan Univ.*), 1919
- Sisk, Augustana—Mathematics  
A.B. (*Maryville Coll.*), 1917
- Sladek, George Edward—Chemistry  
B.S., 1917
- Sloan, Deena Agnes—Home Economics  
A.B., 1919
- Sloan, Madalene Rebina—Home Economics  
B.S., 1919
- Smith, Angie Aleta—Latin  
A.B. (*Eureka Coll.*), 1919
- Snapp, Roscoe Raymond—Animal Husbandry  
A.B., B.S., 1913
- Snider, Howard John—Agronomy  
B.S., 1913
- \* † *Blue Rapids, Kansas*
- SS Gilman
- \* † *Pretoria, South Africa*
- \* † *Albion*
- \* † *Champaign*
- SS \* † *Alberquerque, New Mexico*
- \* † *Urbana*
- † *Denver, Colorado*
- \* *Urbana*
- \* † *Oakland*
- SS Chicago
- † *Cairte, Philippine Islands*
- \* *Exeter, New Hampshire*
- \* † *Manteno*
- \* † *Fenton, Iowa*
- SS \* † *Wheatland, Iowa*
- \* *Chicago*
- \* *Alhambra, California*
- SS Kankakee
- \* † *Urbana*
- \* † *Nash, Oklahoma*
- SS \* † *Waseka*
- \* † *Thiensville, Wisconsin*
- \* † *Belfort, France*
- \* † *Denver, Colorado*
- \* *Urbana*
- \* † *Waseka*
- \* † *New Wilmington, Pennsylvania*
- \* *Urbana*
- \* † *Indianapolis, Indiana*
- SS \* † *Urbana*
- \* † *Hillsboro*
- \* † *Galesburg*
- \* † *Camp Point*
- SS Marion, North Carolina
- \* † *Chicago*
- \* † *Urbana*
- \* † *Urbana*
- \* † *Eureka*
- \* † *Findlay*
- SS \* † *Urbana*

- Snyder, William Percival—Botany  
B.S. (*Purdue Univ.*), 1916
- Somers, Russell Ivan—Chemistry  
A.B., 1919
- Soto, Rafael Arcangel—Spanish  
B.S., A.B., A.M., 1912, 1915, 1917
- Sotola, Jerry—Botany  
B.S., 1918
- Sparks, Keith Emanuel—Chemistry  
B.S., completed except thesis
- Spencer, Edwin Rollin—Botany  
A.B., A.M., 1911, 1914
- Spencer, Victor Elwin—Chemistry  
B.S., 1915
- Sperry, Ralph Edward—Economics  
A.B., 1918
- Spiegler, Louis—Chemistry  
B.S., 1920
- Spooner, Charles Stockman—Entomology  
A.B. (*Cornell Univ.*), 1907  
A.M., 1917
- Stanford, Howard Russel—Horticulture  
B.S., 1908
- Stark, Robert Watt—Agronomy  
B.S. (*Sci.*), 1895  
B.S. (*Agr.*), 1918
- Stearns, Genevieve—Physiological Chemistry  
B.S. (*Carleton Coll.*), 1912
- Steed, Helen Sidney—Latin  
A.B. (*Illinois Coll.*), 1918  
A.M., 1919
- Steimley, Leonard Leo—Mathematics  
A.B., A.M. (*Indiana Univ.*), 1912, 1913
- Stickney, Fenner Satterthwaite—Entomology  
B.S. (*Univ. of California*), 1916  
M.S., 1918
- Stiritz, Benjamin Andrew—Dairy Chemistry  
B.S., 1918
- Stommel, Ruth Olivia—English  
A.B. (*Lake Forest Coll.*), 1919
- Storer, Walter Henry—French  
A.B., 1919
- Strauch, Luella Mary—Inorganic Chemistry  
A. B. (*Carthage Coll.*), 1919
- Strem, Carl Eric Samuel—Chemistry  
A.B. (*Whittier Coll.*), 1917
- Stullken, Edward Henry—Education  
A.B. (*Central Wesleyan*), 1917
- Summitt, James Levi—Physics  
B.S., 1920
- Sweney, Merle Arthur—English  
A.B. (*Hedding Coll.*), 1913  
A.M., 1916
- Taylor, Norris Onslow—Chemistry  
B.S., 1918
- Tehon, Leo Roy—Botany  
A.B. (*Univ. of Wyoming*), 1916
- Tehon, Mrs. Mary Bruner—Latin  
A.B., A.M., 1913, 1916
- Thal, Adolph Friederich—Organic Chemistry  
B.S., 1919
- Thayer, Floyd Kinyon—Chemistry  
A.B. (*Univ. of Denver*), 1918
- Thomas, Lyell Jay—Zoology  
B.S. (*Fargo Coll.*), 1919
- Thompson, David Hiram—Zoology  
B.S. (*Purdue Univ.*), 1919
- Thrasher, Harry Maxwell—History  
A.B., 1911
- Titchener, John Bradford—Latin  
A.B. (*Clark Coll.*), 1917
- Tong, Teh Chang Yee Cheng—Political Science  
A.B., 1917  
A.M. (*Columbia Univ.*), 1918
- Townsend, Myron Thomas—Zoology  
B.S. (*Bates Coll.*), 1918
- Tripp, Evelyn Atwood—English  
A.B. (*Smith Coll.*), 1912
- Trowbridge, Mary Luella—Latin  
A.B., A.M., 1915, 1916
- True, Mrs. Esther Young—Botany  
A.B. (*Miami Univ.*), 1914  
A.M., 1915
- Tukey, Harold Bradford—Horticulture  
B.S., 1918
- \* † Greensburg, Indiana
- SS \* † Champaign
- \* † Urbana
- SS Chicago
- SS \* † Connersville, Indiana
- \* † Urbana
- SS \* † Champaign
- \* † Macomb
- † Chicago
- \* † Urbana
- \* Urbana
- \* † Urbana
- SS \* † Hill City, Minnesota
- SS Bloomington
- SS \* † Urbana
- \* † Honolulu, Hawaii
- \* † Murphysboro
- \* † Dyer, Indiana
- \* † Centralia
- \* † Chadwick
- SS \* † DeKalb
- SS Edwardsville
- † Pesotum
- \* Champaign
- \* † Geneseo
- \* † Urbana
- \* Urbana
- SS \* † Champaign
- SS \* † Denver, Colorado
- \* † Fargo, North Dakota
- SS \* † Dayton, Indiana
- SS Pontiac
- \* † Ithaca, New York
- \* † Huxan, China
- \* † Hallowell, Maine
- † Evanston
- \* † Green Valley
- SS \* Urbana
- \* † Champaign

- Turnquist, Elmer Nels—Physics  
B.S., 1918
- Udinski, William Philip—Chemistry  
B.S., 1918
- Uhlendorf, Bernhard Alexander—German  
A.B., A.M. (*Washington Univ.*), 1916
- Ulich, Lynne Herman—Chemistry  
B.S. (*Grinnell Coll.*), 1914  
M.S., 1918
- Uplap, Govind Piraji—Chemistry  
B.S. (*Univ. of California*), 1919
- Uyei, Nao—Organic Chemistry  
B.S. (*Oregon Agriculture Coll.*), 1916
- Valentine, Roger Wendell—Economics  
A.B. (*McKendree Coll.*), 1916
- Vance, Edward Hammond—Mathematics  
B.S. (*Worcester Polytechnic Institute*), 1913  
A.M. (*Cornell Univ.*), 1917
- Van Winkle, William Alexander—Chemistry  
B.S. (*Univ. of Michigan*), 1911
- Vogie, Alfred Charles—Botany  
B.S., 1918
- Vollmer, Sylvia Maria—Spanish  
A.B. (*Univ. of California*), 1917
- Volz, Emil Conrad—Horticulture  
B.S. (*Michigan Agricultural Coll.*), 1914  
M.S. (*Cornell Univ.*), 1918
- Wagner, Esther Angelica—Chemistry  
A.B., 1918
- Wahlen, Frank Gustave—Mathematics  
B.S. (*Tufts Coll.*), 1917  
M.S., 1919
- Wahlin, Joel Gottlieb—Bacteriology  
A.B. (*Bethany Coll.*), 1917
- Wakeley, John Everett—Education  
A.B. (*Wabash Coll.*), 1914
- Waldo, John Hardenbergh—Chemistry  
138½ hrs. (*Univ. of Illinois*)
- Walker, Margaret—Mathematics  
A.B., 1919
- Walther, Albertine Marie—French  
Ph.B. (*Univ. of Chicago*), 1917
- Wasserman, Max Judd—Economics  
A.B. (*Cornell Univ.*), 1918
- Wasson, Martha Jane—Education  
B.S. (*Knox Coll.*), 1900
- Watkins, Arthur Kratz—Education  
B.S., A.M. (*Missouri Agricultural College*),  
1911, 1912
- Watson, Elba Emanuel—Botany  
B.S., A.M. (*Univ. of Michigan*), 1895, 1919
- Watson, Jane Coulson—Spanish  
A.B., A.M., 1915, 1917
- Watt, Russell A.—Education  
B.S., 1918
- Weaver, Ellis Russell—Zoology  
B.S. (*Knox Coll.*), 1919
- Weese, Asa Orrin—Zoology  
A.B. (*Univ. of Minnesota*), 1909  
A.M., 1918
- Weinard, Frederick Francis—Botany  
B.S., A.M. (*Univ. of Nebraska*), 1916, 1917
- Weirick, Robert Bruce—English  
A.B. (*Colorado Coll.*), 1911  
A.M. (*Harvard Univ.*), 1913
- Whisenand, James Wilbur—Animal Husbandry  
B.S. (*Univ. of Nebraska*), 1914  
M.S., 1916
- Whiteside, Mary—English  
A.B. (*Illinois Woman's Coll.*), 1919
- Wilgus, Walter Quincy—Political Science  
B.Lt. (*Columbia Univ.*), 1915
- Williams, Lewis Ward—Education  
Ph.B. (*Hiram Coll.*), 1909  
A.M., 1918
- Williamson, Warren—Entomology  
A.B. (*Knox Coll.*), 1897  
A.M., 1911
- Wilson, William Courtney—Chemistry  
B.S. (*Westminster Coll.*), 1917
- Wolf, Herman Carl—Electrical Engineering  
B.S., M.S., 1913, 1914
- Wood, Layman Joy—Chemistry  
B.S. (*Otterbein Coll.*), 1919
- Woods, Lenna Adair Beryl—Experimental Zoology  
A.B., 1918
- \* † Canton
- SS \* † Jersey City, New Jersey
- \* † Urbana
- SS \* † Villisca, Iowa  
† Bombay, India
- \* † Ohyo, Japan
- \* † Mt. Vernon
- \* † Worcester, Massachusetts
- SS Bay City, Michigan
- \* † Urbana
- \* † Urbana
- \* Saginaw, Michigan
- SS Forest Park
- \* † Montpelier, Vermont
- \* † Lindsborg, Kansas
- SS Danville
- † Urbana
- \* † Kansas City, Missouri
- † Chicago
- \* † St. Louis, Mo.
- \* † Farmington
- SS Abingdon
- \* Grand Rapids, Michigan
- † Champaign
- † Champaign
- \* † Morrison
- SS Albuquerque, New Mexico
- \* † Lincoln, Nebraska
- \* † Urbana
- \* Harvard, Nebraska
- \* † Carrollton
- \* Ann Arbor, Michigan
- SS \* † Champaign
- SS \* † Urbana
- \* † New Wilmington, Pennsylvania
- \* † Ottawa, Canada
- \* † Mt. Vernon
- SS Champaign

Woods, Roscoe—Mathematics A.B. ( <i>Univ. of Maine</i> ), 1916	• † Vanarsdell, Kentucky
Wright, Allan Thurman—English A.B., 1913	• † Franklin
Wrigley, Ira Maple—Education A.B. ( <i>Hedding Coll.</i> ), 1911	SS Macomb
Wylie, Charles Clayton—Astronomy A.B. ( <i>Park Coll.</i> ), 1908	† Marissa
A.M. ( <i>Univ. of Missouri</i> ), 1912	• † Holland, Michigan
Yntema, Leonard Francis—Inorganic Chemistry A.B. ( <i>Hope Coll.</i> ), 1915	• † Hakozaki, Japan
Yoshida, Tokujiro—Theoretical and Applied Mechanics Degree ( <i>Imperial Univ. of Tokyo</i> ), 1912	SS • † Salem
Young, Nellie—Zoology A.B., 1919	• † Tokyo, Japan
Yuasa, Hachiro—Entomology B.S. ( <i>Kansas State Agricultural Coll.</i> ), 1915	
M.S., 1917	
Yuncker, Truman George—Botany B.S. ( <i>Michigan Agricultural Coll.</i> ), 1914	SS Urbana
A.M. ( <i>Univ. of Nebraska</i> ), 1915	





PART VIII  
LIST OF STUDENTS, ETC.  
(1919-1920)



# UNDERGRADUATE AND PROFESSIONAL COLLEGES AND SCHOOLS IN URBANA, 1919-20

(Including the Colleges of Liberal Arts and Sciences, Commerce and Business Administration, Education, Engineering, Agriculture, and Law,  
the Library School, and the School of Music)

## ABBREVIATIONS

### Curriculums

Accy	Accountancy	LG	Landscape Gardening
Agr	General Agriculture	Lib	Library Science
AE	Architectural Engineering	MedP	Medical Preparatory
Arch	Architecture	ME	Mechanical Engineering
Ath	Athletic Coaching	MinE	Mining Engineering
Bank	Banking	MSE	Municipal and Sanitary Engineering
Bus	General Business	Mus	Music
C&L	Commerce and Law	RA	Railway Administration
CCS	Commercial and Civic Secretaries	RCE	Railway Civil Engineering
CE	Civil Engineering	REE	Railway Electrical Engineering
CerE	Ceramic Engineering	RME	Railway Mechanical Engineering
Chem	Chemistry	RT	Railway Transportation
ChE	Chemical Engineering	SHAAgr	Smith-Hughes Teacher Training in Agriculture, College of Agriculture
ComT	Commercial Teachers	SHAEd	Smith-Hughes Teacher Training in Agriculture, College of Education
EcEnt	Economic Entomology	SHHEEd	Smith-Hughes Teacher Training in Home Economics, College of Education
Ed	General Education	SHHEAgr	Smith-Hughes Teacher Training in Home Economics, College of Agriculture
EE	Electrical Engineering		
EngPh	General Engineering Physics	Sp	Special
Flor	Floriculture	SS	Summer Session, 1919
FOM	Farm Organization and Management	Ssp <sup>2</sup>	Soldier Special
ForC	Foreign Commerce	Voc <sup>3</sup>	Special Vocational Curriculum in Agriculture
HEAgr	Home Economics, Agriculture	Vsp <sup>4</sup>	Vocational Special
HELAS	Home Economics, Liberal Arts and Sciences		
IndA	Industrial Administration		
Ins	Insurance		
Irr <sup>1</sup>	Irregular		
Jnl	Journalism		
Law	Law		
LawP	Law Preparatory		
LAS	General Liberal Arts and Sciences		

NAME	CURRICULUMS	CREDIT HOURS <sup>5</sup>	RESIDENCE
Abbitt, Macon Armistead	<i>Arch</i>	66½	* Hopkinsville, Kentucky
Abbott, Dorothy Caroline	<i>CE</i>		* † Chicago
Abbott, Edison William	<i>Bus</i>	30½	* † Chandlerville
Abbott, George Robert	<i>Bus</i>	24	* † Charleston
Abbott, Ira Richmond	<i>EE</i>	4	* † Mason City
Abbott, Ivan Charles	<i>EE</i>		* † Woodstock
Abbott, Josephine Eleanor	<i>Bus</i>	29½	* † Chicago
Abbott, Lyle Smith	<i>Flor</i>	51	* † Elgin
Abell, Louise	<i>HELAS</i>		* † Assumption
Abell, Thomas Wayne	<i>Agr</i>		* † Assumption
Abney, Willard Harold	<i>ForC</i>	34½	* † Harrisburg
Abraham, Leonard Gladson	<i>EE</i>	35½	* † Watson
Abraham, Lucile Hannah	<i>CCS</i>	99½	* † Moline
Abraham, Robert	<i>ME</i>	5½	* † Rockford
Abraham, Samuel Victor	<i>AE</i>	30½	* † Chicago
Abrahamson, Gladys Irene	<i>LAS</i>		* † Chicago
Abrahamson, Howard Newton	<i>CE</i>	53½	* † Chicago
Abramson, Roy Theodore	<i>Agr</i>	32½	* † M'ilmotte
Abt, Burl Raymond	<i>Bus</i>	32	* † Chicago
Acer, Charlotte Weld	<i>HELAS</i>	97½	* † Medina, New York
Adair, Colista Genevieve	<i>HELAS</i>		* † Stronghurst

<sup>1</sup> Students holding bachelor's degrees but taking undergraduate work.

<sup>2</sup> Honorably discharged soldiers and sailors not qualified for matriculation and under 21 years of age, admitted on the basis of a personal interview with a faculty committee and of passing the Army Intelligence Test (under the procedure suggested by the United States Commissioner of Education).

<sup>3</sup> Sub-collegiate, conducted for disabled soldiers and sailors under the auspices of the Federal Board for Vocational Education.

<sup>4</sup> Disabled soldiers and sailors under the auspices of the Federal Board for Vocational Education.

<sup>5</sup> Number of credit hours computed as of October 1, 1919, to show the student's class standing during the year. In the case of students in the College of Law and the Library School, only those credits that count towards the LL.B. and B.L.S. degrees are shown.

\* † Attendance first semester indicated by the asterisk (\*); second semester by the dagger (†).

Adair, William Robert	<i>Agr</i>		† Stronghurst
Adam, Fred	<i>Agr</i>		† Strawn
Adams, Alma Ione	<i>LAS</i>		† East Moline
Adams, Clayton Sinnott	<i>Law sp</i>		† Champaign
Adams, Edwin Lee	<i>Arch</i>	8	† Brazil, Indiana
Adams, Hugh Moore	<i>Agr</i>	20	† Charleston
Adams, James Franklin	<i>LAS</i>		† Brazil, Indiana
Adams, Jessie Ruth	<i>HELAS</i>		† Princeville
Adams, John David	<i>Agr</i>		† Chicago
Adams, Lyndon Olin	<i>EE</i>	35½	† Kansas
Adams, Marilla Ella	<i>Jnl</i>		† Decatur
Adams, Paul Gilbert	<i>Agr</i>	88½	† Princeville
Adams, Samuel Preston, Jr.	<i>Arch</i>		† Oak Park
Adams, Varian Baltzell	<i>Law</i>		† Chicago
Adams, Walter Glenn	<i>MinE</i>	30	† Kewanee
Adams, William Homer	<i>LAS</i>		† Brazil, Indiana
Aden, Christine Frances	<i>LAS</i>	59½	† Champaign
Aderton, Paul Latimer	<i>Voc vs p</i>		† Hardin
Adkins, John Ferguson	<i>Ath</i>		† Indianapolis, Indiana
Adler, Maurice	<i>Chem</i>		† St. Louis, Missouri
Adsit, Gaylord	<i>LAS</i>		† Wellington
Agnew, John Maurice	<i>EE</i>		† Clinton, Indiana
Agnew, Oliver Lyle	<i>Agr</i>		† Wayne
Aguinaldo, Carmen Rosario	<i>LAS</i>		† Keweenaw, P. I.
Ahlenius, Ruth Margaret	<i>LAS</i>	21½	† Chicago
Aiken, Joseph Eugene	<i>EE</i>	41	† Benton
Aitken, Coleita	<i>Mus</i>	33½	† Urbana
Aitken, Louis Fred	<i>ChE</i>		† East St. Louis
Akeroyd, Arthur Edwin	<i>Bus</i>		† Chicago
Alanen, Arvid Michael	<i>ME</i>	14	† Ishpeming, Michigan
Albaugh, Anthal Edwin	<i>LAS</i>	31½	† Berwyn
Albershardt, Frederick Conrad	<i>ForC</i>	26½	† Tipton, Indiana
Albershardt, John Henry	<i>ForC</i>	16½	† Tipton, Indiana
Alberstett, Vernon Roy	<i>Bus</i>	10	† Rockford
Albert, Samuel Raymond	<i>CE</i>	2½	† Freeport
Alberts, Dewey Verne	<i>ChE</i>		† Lincoln
Albertson, Roy Arthur	<i>AE</i>	48½	† Chicago
Albright, Joseph Clarence	<i>ME</i>	111	† Rossville
Albright, Malvin Man	<i>Arch</i>	27	† Hubbard Woods
Alcivar, Ernest	<i>SS</i>	83	† New York, New York
Alcorn, Kent Archibald	<i>MedP</i>	20½	† Chicago
Alderson, Edmund Waldo	<i>Bus</i>	98½	† Chicago
Aldrich, Ellwood Harmon	<i>CE</i>		† Rockford
Aldrich, Eugene Elliot	<i>Ath</i>		† Duluth, Minnesota
Aldrich, Richard Lewis	<i>LAS (SS)</i>	84½	† Earlville
Alexander, Louis Jessup	<i>AE</i>	64	† St. Louis, Missouri
Alexander, Louis Julian	<i>Bus</i>		† Little Rock, Arkansas
Alford, Frank Lambert	<i>MedP</i>	2½	† Cropsey
Alison, Lloyd Cicero Wallace	<i>LawP</i>		† Alvin
Alison, Newton Vincent	<i>Accy</i>	104½	† Champaign
Alleman, James Gordon	<i>FOM</i>	9½	† Thomson
Alleman, Martin Benjamin	<i>Agr</i>	46½	† Champaign
Alleman, Merle Margarite	<i>LAS</i>		† Champaign
Allen, Archie Vernon	<i>Bus</i>	30½	† Vidon
Allen, Charles Moore	<i>Agr</i>	17	† Charleston
Allen, Donald Ray	<i>Bus</i>	30	† Chicago
Allen, Dorothy	<i>LAS</i>	60	† Indianapolis, Indiana
Allen, Edmund Turney	<i>Mesp</i>	40	† Hamilton
Allen, Eloise Grace	<i>HEAgr</i>		† Delavan
Allen, Harry Kenneth	<i>Bus</i>	101	† Broadlands
Allen, Ila Lowe	<i>SS</i>	7½	† Fillmore
Allen, James Edmund	<i>Bus</i>		† Davenport, Iowa
Allen, Laurence John	<i>Bus</i>		† Harvard
Allen, Lawrence Holt	<i>Accy</i>	96½	† Indianapolis, Indiana
Allen, Lucile	<i>SS</i>	8½	† Greencastle, Indiana
Allen, Mildred King	<i>SS</i>		† Webster Groves, Missouri
Allen, Paul Edward	<i>Agr</i>		† Newman
Allen, Ralph B.	<i>Bus</i>		† Broadlands
Allen, Raymond Earl	<i>ME</i>	79½	† Chicago
Allen, Reno Edward	<i>CE</i>		† Waterly
Allen, Theodore Raymond	<i>Agr</i>	93½	† Delevan
Allen, Wharton	<i>Agr sp</i>		† Colorado Springs, Colorado
Allen, Wilton Theodore	<i>EE</i>		† Chicago
Allison, Arthur R.	<i>AE</i>	8	† Palisades, Colorado
Allison, Everett Harmen	<i>MinE</i>	39½	† East St. Louis
Allison, Harley Francis	<i>Bus</i>	52½	† Assumption
Allman, John Claude	<i>CE</i>	73	† Crown Point, Indiana
Allott, Clyde Walter	<i>ME</i>		† Wilmington
Allton, Lola	<i>LAS</i>	26	† Peoria
Allyn, Chauncey Brewer	<i>Agr</i>		† Urbana
Allyn, Norman Barnes	<i>Ins</i>	59½	† Springfield
Almberg, Iver Theodore	<i>ME</i>	33½	† Chicago
Alter, Franklin Allen	<i>ME</i>	35½	† Rock Island
Althaus, Florence Gertude	<i>LAS</i>	127½	† Belvidere
Althoff, Ralph Joseph	<i>EE</i>		† Effingham
Alvord, Ben Finley	<i>Agr</i>	8	† Noble

Alward, Cutler Kenneth	Bus	37	• † Moreoqua
Alwood, Fred Ward	Chem	96½	• † Clinton
Alyea, Paul Edgar	IndA		• † Indianapolis, Indiana
Ames, Alta Maurine	LAS	104	• † Rutland
Ames, Edna Julia	LAS	60	• † Rutland
Ammon, Ralph E	Agr(SS)	16	• † Carmi
Amos, Harold Grimes	Bus		• † Roadhouse
Amsbary, Addie Elizabeth	LAS(SS)	66½	• † Champaign
Amsbary, Frank Clifford, Jr.	ME	5½	• † Champaign
Anastasiades, Ernest	CE	155	• † Urbana
Anders, Mae Corinne, A.B., 1907	Lib		• † Iowa Falls, Iowa
Anderson, Alonzo R., Jr.	LASsp	2	• † St. Louis, Missouri
Anderson, Alvin Theodore	Agr	102	• † Wheaton
Anderson, Donald Sutherland	Bus	34	• † Chicago
Anderson, Elizabeth Carolyn	HEAgr	66½	• † Elgin
Anderson, Elmer Emanuel	EEsp	8	• † Kewanee
Anderson, Edwin August	CE	9½	• † Elgin
Anderson, Everett Leroy	Bus		• † Rockford
Anderson, Florence Elizabeth, B.S., 1909	HEAgr irr	136½	• † Urbana
Anderson, Floyd Graham	Agr.	22½	• † Pinckneyville
Anderson, Frank G	Bus		• † Allerton
Anderson, George William	AE		• † Bloomington
Anderson, Harold Elmer	ChE		• † Chicago
Anderson, Harold Irvin	AE	35	• † York, Nebraska
Anderson, Harriett Maybelle	LAS	97	• † Urbana
Anderson, Harry Drake	Low		• † Pittsfield
Anderson, Hazel Lillian	LAS		• † Chicago
Anderson, John Arthur	ChE	36½	• † Chicago
Anderson, Lawrence Bernard	ChE	38	• † East Lynn
Anderson, Loudene	LAS		• † Creal Springs
Anderson, Mark Joseph	ME	14½	• † St. Charles, Missou
Anderson, May Janette	LAS		• † Wheaton
Anderson, Norval Eugene	CE	112½	• † Centralia
Anderson, Paul Alexander	Chem	114	• † Wilmette
Anderson, Paul August Cornelius	Bus	8	• † Chicago
Anderson, Paul Theodore	Bus		• † Rock Island
Anderson, Perry John	Bus	78	• † Urbana
Anderson, Raymond Rueben	ME		• † Kewanee
Anderson, Walter Theodore	CE		• † Ottawa
Anderson, Wesley Francis	Bus		• † Sycamore
Anderson, William Donald	Bus	23½	• † Monticello
Anderson, Win' eld Scott	EE	71	• † Anna
Andren, Inez Dorothy	Bus		• † Gary, Indiana
Andresen, Ollene Gertrude	LAS		• † Elgin
Andrews, Charles Frederick	EE	72½	• † Dixon
Andrews, Elizabeth	HELAS(SS)	112½	• † Urbana
Andrews, Fannie Matilda	SS		• † Terre Haute, Indiana
Andrews, Frank Monroe	ME	54½	• † Dundee
Andrews, Helen Elizabeth	LAS	32	• † St. Louis, Missouri
Andrews, Howard Wilbert	Bus	28	• † Pontiac
Andrews, John Harley	Bus	108	• † Champaign
Andrews, Kenneth Anton	ForC		• † Quincy
Andrews, Ruth, A.B., 1918	SS	134½	• † Urbana
Andrews, Wilkins Bostick	Bus		• † Fayette
Andy, Philip	LAS	8	• † Belvideros, Greece
Angela, Beatrice	Chem		• † Chicago
Angell, Otis Holmes	MedP	30½	• † Rushville
Ankeny, Marjorie Luella	HEAgr		• † Davenport, Iowa
Anthony, Beatrice Josephine	LAS	24	• † Villa Park
Anthony, Thor John	MedP		• † Eldorado
Apeland, Fritzof Harry	ME		• † Chicago
Appel, Robert Everett	EE	44½	• † Springfield
Appelgran, Clarence Oliver	Agr	118	• † Chicago
Apple, Russell Evans	Agr	101	• † Robinson
Applegate, Gladys Irene	Chem	5	• † Western Springs
Applegate, Jessie Louise	LAS	29½	• † St. Paul, Indiana
Appling, John William	Chem(SS)	68½	• † St. Joseph
Archbold, Harold Herbert	EE	60	• † Brookfield
Archer, Nelle Victoria, A.B., 1919	Lib		• † Sheldon, Iowa
Argo, Vernon Alexander	LowP	5½	• † Clinton
Armes, John Eugene	Bus	2½	• † Peoria
Armistead, Ermah Lucile	HEAgr		• † Indianapolis, Indiana
Armour, Dorothy Marion	Chem	76	• † Rockford
Armstrong, Frederick Carroll	EE	70½	• † Lincoln
Armstrong, George Victor	LAS	96	• † Kewanee
Armstrong, Grace Wilda	SHA Agr		• † Urbana
Armstrong, James William	LowP	38	• † Centralia
Armstrong, John Harold, A.B., 1917	Law	58½	• † Champaign
Armstrong, Marjorie Annon	LAS	63½	• † Urbana
Armstrong, Mary Olivia	HEAgr sp		• † Park Ridge
Armstrong, Nellie Catherine, A.B., 1918	SS		• † Kewanee
Armstrong, Paul Leo	LAS	95	• † River Forest
Armstrong, Ray Conway	MedP	8	• † Mound City
Armstrong, Thomas Hunter	Law	30	• † Mound City
Armstrong, Wilbur Price	SS	100½	• † Springfield
Armstrong, William Earl	Agr		• † Litchfield

Armstrong, William Sharon Custer	<i>Agr</i>	4	* † Chicago
Armstrong, William Young	<i>ChE</i>		* † Milwaukee, Wisconsin
Arndt, Raymond Henry	<i>ME</i>	8	* † Rock Island
Arnold, Ambrose Allen	<i>ChE</i>	71	* † Palmerton, Pennsylvania
Arnold, Charles Vincent	<i>FOM</i>	77	* † LaGrange
Arnold, Dean Moxley	<i>AE</i>		* † Ironton, Ohio
Arnold, Henry Cicero	<i>Bus</i>	8	* † Chicago
Arnold, John William	<i>LAS</i>	69½	* † Little Rock, Arkansas
Arnold, Orville Dayton	<i>LawP</i>	58½	* † Browning
Arnold, Russell Ellsworth	<i>CerE</i>	34½	* † Chicago
Arrasmith, William Strudwick	<i>Arch</i>	91	* † Hillsboro, North Carolina
Arrau, Miguel Angel	<i>EE</i>		* † Santiago, Chile
Arrick, Herbert McClain	<i>RT</i>	17	* † Logansport, Indiana
Arrowsmith, Imo Eugenia	<i>LAS</i>		* † Le Roy
Arteaga, George Alexander	<i>CE(SS)</i>	87	* † Cochabamba, Bolivia
Arter, Eugenia Jenkins	<i>LAS</i>	33	* † Danville
Arter, Hays James	<i>Bus</i>	20½	* † Kewanee
Artz, Franz Joseph	<i>MedP</i>	36½	* † St. Louis, Missouri
Ashbaugh, Walter Wyatt Rose	<i>Agr</i>		* † Dunlap
Ashby, Virgil Edgar	<i>EE</i>		* † Kansas
Ashley, Floyd Robert	<i>LawP</i>	8	* † Kokomo, Indiana
Asmus, Edna Ida	<i>Jnl</i>	30	* † Chicago
Asmus, Edward William John	<i>C &amp; L</i>		* † Chicago
Aspern, Dorothy Ray	<i>LAS</i>	22	* † Champaign
Astell, Louis Alexander	<i>MedP</i>	37½	* † Homer
Atherton, Harold Gregory	<i>Arch</i>	28	* † Anderson, Indiana
Atkinson, Edna Myrtle	<i>LAS(SS)</i>	96½	* † Colfax
Atkinson, Thelma Marie	<i>Jnl(SS)</i>	8	* † Urbana
Atkinson, Earl Walston	<i>EE</i>	34½	* † Pana
Atwater, Daniel Carey	<i>ME</i>		* † Rochelle
Atwell, Donald Burgess	<i>CerE</i>	54	* † Nacogdoches, Texas
Atwood, Carl Edward	<i>LAS</i>	31	* † Oak Park
Aubuchon, Joseph Montgomery	<i>EE</i>	107	* † Champaign
Aubuchon Mrs. Joseph Montgomery	<i>Mus sp</i>		* † Champaign
Auld, Ernest Roland	<i>Agr</i>	106	* † Martinsville
Augustine, Melville	<i>Bus</i>		* † Ladora, Iowa
Aungst, Darius William	<i>Accy</i>	100½	* † Decatur
Ausbury, Harold Gordon	<i>Agr sp</i>		* † Macomb
Austin, James William	<i>C &amp; L (SS)</i>	29	* † Evingham
Austin, Thomas Edward	<i>Bus</i>		* † Evingham
Austin, Walter Brown	<i>EE</i>		* † Hoopesston
Avery, Cyrus Minor	<i>Bus</i>	28½	* † Peoria
Ayers, Donald Jean	<i>ME</i>	4	* † Chicago
Ayers, George Lincoln	<i>IndA</i>	75	* † St. Charles
Ayres, Howard Ransome	<i>MedP sp</i>		* † New Lenox
Babb, Howard John	<i>Bus</i>	22	* † Champaign
Babcock, Golden Alfred	<i>EE</i>		* † Carman
Babcock, Margaret Jane	<i>Mus</i>		* † Rensselaer, Indiana
Baber, Carroll Preston, A.B., 1913	<i>Lib</i>	32½	* † Champaign
Baber, Mrs. Neile Salina	<i>SS</i>	2½	* † Champaign
Bach, Cornelius Julius	<i>Agr sp</i>	8	* † Belleville
Bach, Ferdinand Harold	<i>Bus</i>	4½	* † Terre Haute, Indiana
Bacon, Edward McKinley	<i>Bus</i>	42½	* † Hopkinsville, Kentucky
Bacon, Marie Louise	<i>Jnl</i>		* † Lilly
Badger, Carroll John	<i>Agr(SS)</i>	90	* † Maury City, Tennessee
Baechler, Matilda May, B.S., 1918	<i>SS</i>	130	* † Grant Park
Baer, Adeline Harris Harriett	<i>Bus</i>		* † Chicago
Baethke, Lillian Henrietta	<i>HELAS</i>	101½	* † Glen Ellyn
Bahlman, William John	<i>ME</i>	17	* † Goodenow
Baiano, Salvini James	<i>Bus sp</i>		* † Los Angeles, California
Bailey, Bernice Huldah	<i>HELAS</i>	60	* † Le Roy
Bailey, Dale Bedford	<i>Agr</i>		* † Coal Valley
Bailey, Hamilton Rejuard	<i>Jnl</i>	43½	* † Urbana
Bailey, Harvey Hamilton	<i>IndA</i>	10	* † Moline
Bailey, Robert Gilman	<i>Agr</i>	32	* † Delavan
Bailey, Ruth Maria	<i>LAS</i>	33	* † Paris
Bailie, Lucile	<i>HEAgr</i>	116	* † Terre Haute, Indiana
Bailie, Violet Willard	<i>Mus</i>		* † Owaneco
Baily, Mrs. Winifred Gertrude	<i>SS</i>	3	* † Urbana
Baird, Fern Madella	<i>SS</i>	6½	* † Sparta
Baird, Frieda	<i>Bus</i>	31½	* † Jamaica
Baird, George Dewey	<i>LAS</i>	8	* † Rock Island
Baird, George Malcolm	<i>Bus</i>	26½	* † Evansville, Indiana
Baird, Jack Pierson	<i>Bus</i>		* † Evansville, Indiana
Baird, Robert Leslie, Jr.	<i>CE</i>	8	* † Park Ridge
Baits, Maurine	<i>LAS</i>	56	* † St. Louis, Missouri
Baits, Theodosia Perkins	<i>LAS</i>	15	* † St. Louis, Missouri
Bake, Rosa	<i>LAS</i>		* † Terre Haute, Indiana
Baker, Clarence Everett	<i>Flor</i>	96	* † Champaign
Baker, Earl Boggess	<i>CerE</i>	74	* † Fairmount
Baker, Ednah Elizabeth	<i>LAS (SS)</i>	6	* † Batavia
Baker, Frank Melsome, Jr.	<i>LAS</i>		* † Chicago
Baker, Glenn Everett	<i>Bus</i>		* † Ottawa
Baker, Harold Griffith	<i>Law</i>	12	* † East St. Louis
Baker, John Babcock	<i>ChE (SS)</i>	74½	* † Springfield
Baker John D	<i>ME</i>		* † Sumner

Baker, Lloyd Brown	EE	35	* † Riverside
Baker, Louise	Ed	81	* † Veederburg, Indiana
Baker, Marie Janet	Bus		* † Harvey
Baker, Robert Everette	Agr	44½	* † Brocton
Baker, Sophia	LAS	30	* † Marion
Baker, Violet Maud	SS		* † Chicago
Baker, Walter Riley	Agr (SS)	94	* † Lafayette, Indiana
Baker, Wilbert James	Chem	27½	* † Princeville
Bakke, Walter Bennie	Ath	2	* † Sterling, Colorado
Balbach, Harold Edward	Agr		* † Chenoa
Baldwin, Arthur Ernest	Bus (SS)	88½	* † Danville
Baldwin, Beulah Helen	LAS	29	* † Centralia
Baldwin, Grace Howard	HELAS (SS)	34	* † Urbana
Baldwin, Helen Taylor	LAS	102	* † DeKalb
Baldwin, Kenneth Denison Holmes	Agr	44½	* † Peoria
Baldwin, William Robert	RA		* † Dayton, Ohio
Bale, Henry Schrader	Bus	4	* † Joliet
Bales, Margiam Josephine	LAS	32	* † Dana, Indiana
Ball, Fred ric Dunham	LawP	100½	* † Clinton
Ball, John Maurice	EE	8	* † Rushville
Ball, Lyle Elwin	EE	8	* † West Chicago
Ball, Mildred Floss	HELAS		* † Foolsland
Ball, Wilfrid Randolph	AE	21½	* † Hartford, Connecticut
Ballard, Edward Milton	ME (SS)	48	* † Berwyn
Balliett, Carl Arthur	FOM	4	* † Kansas City, Missouri
Bamberger, Alvena	LAS (SS)	48½	* † Champaign
Bamford, Thomas	FOM	112	* † Champaign
Banashek, Julius	Bus	38½	* † St. Louis, Missouri
Bancroft, Anna Dewey	LAS	101	* † Oak Park
Bancroft, Burton Richard	MedP		* † Mt. Carroll
Bancroft, Ruth Marguerite	SS	8½	* † Jacksonville
Bandy, Keith Kenneth	ChE		* † White Hall
Banker, Edward Hamilton	Bus	8	* † Chicago
Bankson, Clyde Russel	Law	12	* † Pulaski
Bannister, John Howard	Agr	62	* † Boston, Massachusetts
Banta, Elizabeth Blanche	LAS		* † Lowpoint
Banton, Huston	MedP	11	* † Mt. Zion
Banton, Oliver Terrell	Bus	8	* † Mt. Zion
Barackman, Hazel B.	HEAgr (SS)	100½	* † Sreator
Barbe, Bernard	ChE		* † Chicago
Barber, Albert Carlos	MedP	18	* † Moline
Barber, Hillis, Elwyn	Agr	102	* † LaFox
Barber, Merle Shaw	Bus	8	* † Pittsfield
Barber, Wilbur Barrett	EE	113	* † Joliet
Barber, William	Bus	51½	* † Decatur
Barcume, Lyle Nelson	Arch	37½	* † Los Angeles, California
Bardwell, Conrad Morton	LAS	105	* † Aurora
Bardwell, John Early	IndA	36	* † St. Louis, Missouri
Bardwell, William Utley	LawP		* † Dixon
Barenfanger, Bessie Louise	Bus		* † Salem
Barker, Annie Eliza	LAS (SS)	105	* † Bondville
Barker, Ernest Clyde	Chem	26	* † Mazon
Barker, Vernon Orl	AE	8	* † Oblong
Barklage, Oliver Frederick	EE	130	* † St. Charles, Missouri
Barkow, Emory Merrill	Agr	85½	* † Chicago
Barnard, Alger Sidney	ME		* † Naperville
Barnard, Grace	LAS sp		* † Ladoga, Indiana
Barnard, Randolph Hundley	Bus (SS)	59	* † St. Louis, Missouri
Barndt, Walter Dewey	Bus	8	* † Chicago
Barnes, Esther Elizabeth	LG	67	* † Urbana
Barnes, Francis Joseph	EE	12½	* † Chicago
Barnes, Franklin Henry	ForC	8	* † Rockford
Barnes, Robert Avery	LawP		* † Washburn
Barnes, Robert Stubbs	Bus	22½	* † Delavan
Barnes, Ross Price	Bus	8	* † East St. Louis
Barnett, Arthur Ray	C & L	30½	* † White Hall
Barnett, Clarence Edward	ME	8	* † Pana
Barnett, Irving Wood	Bus	33½	* † Chicago
Barnett, Kenneth Klon	EE	60	* † Konkakee
Barnett, Mary Lorene	LAS	32	* † Mattoon
Barnett, Richard Parker	LAS	28½	* † LaFontaine, Indiana
Brousseau, Ignacio Carlos	AE	46½	* † Mexico City, Mexico
Barr, Andrew, Jr.	Accey		* † Urbana
Barr, Harry Andrew, A.B., 1913	Law		* † Aledo
Barr, Lola Rea	SS	24½	* † Greenville
Barr, Norman Burton, Jr.	Agr		* † Chicago
Barr, Oliver Milton, Jr.	Arch	27½	* † River Forest
Barr, Ruth Elizabeth	LAS		* † Oak Park
Barrenechea, Santiago	MedP		* † Chiclayo, Peru
Barrett, Harold Truman	EE	8	* † Chicago
Barrett, Isaac Beamer	Agr	27½	* † Elmwood
Barrett, John Carl	LAS		* † Neoga
Barrett, Marguerite Lillian	LAS	26	* † Oak Park
Barrett, Mary	LAS	56	* † Joliet
Barrett, Pearl	LAS		* † Lawra
Barrett, Robert Alonzo	ME	16	* † Chicago

Barry, John Thomas	Jnl		* † Dwight
Barry, Nelle Lee	Bus	30½	* † Champaign
Barry, Walter Andrews	EE	57	* † Freeport, Florida
Barter, Loy McKinley	Agr	22½	* † Harrisburg
Bartholomew, Harold Lehman	Bus	35	* † Indianapolis, Indiana
Bartholomew, Maynard Todd	ME	66½	* † Chicago
Bartle, George Jacob	Bus	30	* † Pinckneyville
Bartlett, Charles Henry	CE	73½	* † Chicago
Bartlett, Irving Gayle	Bus	31	* † Lafayette, Indiana
Bartlett, William Henry	Agr	104½	* † Fairbury
Bartling, Edwin Phillip	Bus	30	* † Chicago
Barton, Arthur Layton	Law	59½	* † St. Louis, Missouri
Barton, Harold Daniel	EE	8	* † Crawfordsville, Indiana
Barton, Lester Leslie	Bus	26	* † Peoria
Bartow, Lydia Mae	SS	8	* † Pana
Bartsch, Ralph Roy	Accy		* † West Chicago
Bach, Daniel Ketter	ME	4	* † Indianapolis, Indiana
Bash, Florence Anne	LAS	72½	* † Champaign
Bash, Nerva Mary	SS	7	* † Champaign
Baskerville, Frances Angela	LAS		* † Joliet
Bass, Fred	FOM	104½	* † Armstrong
Bass, Hyman	MedP	2	* † Chicago
Bass, Irene	Bus	32½	* † Armstrong
Bass, Lawrence William	Arch	8	* † Indianapolis, Indiana
Bass, Leo Ossian	Agr	18	* † Walnut
Bass, Perkins Burnham, Jr.	ME	32	* † Evanston
Bassett, Vera Vivian	LAS	34½	* † Champaign
Bates, John Blynn	MR	11½	* † La Grange
Bates, Nellie Florence	LAS	30½	* † Champaign
Battaile, Irene Louise	LAS	14	* † Champaign
Battersby, Fred	LAS	8	* † Keosauqua
Batterton, Anne Adeline	HEAgr	47	* † Greenfield
Batterton, Harriet	LAS	89½	* † Greenfield
Batthey, Leslie James	EE	78	* † Tiskilwa
Battles, Dean Duval	Arch	72	* † Peoria
Bauch, Wilhelmina Johanna	SS	8	* † Pittsfield
Bauersachs, Glenn David	Agr	24	* † Pinckneyville
Baughman, Clarence Wayne	LG	30	* † Fort Wayne, Indiana
Baughman, Ralph Neal	Agr		* † Canton, Mississippi
Bautjan, Paul Cecil	Bus	42½	* † Beardstown
Baum, George Humphrey	Bus	76½	* † Morris
Baum, Ray Alonzo	LAS	62½	* † Quincy
Baumgardner, Karl Conant	LAS	31½	* † Sioux Falls, South Dakota
Baus, Walter Emerson	LAS (SS)	59½	* † Indianapolis, Indiana
Bautista, Leopoldo Legaspi	ME (SS)	8½	* † McKaywayan, P. I.
Bay, Edwin	Agr	58½	* † Alledo
Bayler, Theodore Franklin	ForC	31½	* † Louisville, Kentucky
Bayley, Emily Elizabeth	LAS	105½	* † Urbana
Bayley, Herbert Grant	Bus (SS)	37	* † Norris City
Baynes, Kathryn Lee	LAS		* † Urbana
Beach, Amy Adaline, A.B., 1914; A.M., 1918	SS		* † Champaign
Beach, Harriet Alice	LAS (SS)	32½	* † Champaign
Beach, Helen Tracy	HELAS	26	* † Wood River
Beadles, Jessie Rachel	LAS	8	* † Virginia
Beale, Russell Conwell	ChE	8	* † Granite City
Beam, Margaret Elizabeth Pearl	Jnl		* † Robinson
Bean, Donald Eckhart	LAS	64½	* † Chicago
Bean, Haldane Wesley	Agr		* † Blue Mound
Bean, Violet Elizabeth	LAS	90	* † Blue Mound
Beard, Lois Ina	LAS		* † Farmington
Beard, Marshall Arthur	Bus	71	* † Petersburg
Beard, Odian Swain	LawP	65	* † Lily Lake
Beard, Ray Albert	Bus	10½	* † Chicago
Beary, Ernest Elmer	SS	8	* † Hastings, Nebraska
Beattie, Dewey Thompson	Agr	46½	* † Sparta
Beatty, Charles Lloyd	Agr	38½	* † Paris
Beatty, Francis Merrill	Bus	16½	* † Chicago
Beatty, Sarah Margaret	LAS		* † Quincy
Beatty, William Forest	Agr	9½	* † Paris
Beauman, Lee Roy	EE (SS)	47½	* † Pittsfield
Beaumont, Thomas Morgan	LAS	65½	* † Kankakee
Beaver, Jessie Mae	LAS	21½	* † Centralia
Becht, Emily	LAS	22	* † Braunfels, Germany
Bechtold, Lilian Hortense	LAS		* † Urbana
Beck, John Albert	Agr		* † Dolton
Beck, Ruth Marie, A.B., 1918	SS	131	* † Champaign
Beck, Walter	EE	12	* † Rock Island
Beckemeyer, Harry John	SS	122½	* † Beckemeyer
Becken, Albert Charles, Jr.	Bus (SS)	95	* † Chicago
Becker, Carl, Jr.	ChE	36	* † Chicago
Becker, Carlton Hewitt	ME		* † Elgin
Becker, Edmund Frederick	Bus	30½	* † Chicago
Becker, Frederick William	Bus (SS)	97½	* † Chicago
Beckett, Faith	HELAS		* † Covington, Indiana
Beckham, Irene	SS	5	* † Farmer City



Beckley, Frank Ralston	Agr		* †	Riverside
Beckman, Arnold Orville	ChE	8	* †	Bloomington
Bedale, Joseph Hillman	LAS	8	* †	Mendon
Beebe, Asa Lewis	CerE		* †	Kankakee
Beebe, Hamilton Keller	LawP		* †	Chicago
Beebe, Walter Ewart	Bus	37½	* †	Chicago
Beeby, Florence Rich	Mus sp		* †	Urbana
Beeby, Lois Ellen	HELAS	67½	* †	Urbana
Beeby, Ruth Alice	SS	54½	* †	Urbana
Beechler, Arthur Karl	EE (SS)	53¾	* †	Springfield
Beedle, Paul Walter	EE	8	* †	East Chicago, Indiana
Beedy, Lucille Emily	LAS	88¼	* †	Manteno
Beekmann, Harry Louis	Bus	61½	* †	Chicago
Beekmann, Henry Louis	Bus	56½	* †	Chicago
Beery, Virgil Replogle	SS	75½		Pleasant Hill, Ohio
Beeson, Carroll Ona	Arch	8	* †	Marshall, Indiana
Beeson, Theron Henry	Agr	29	* †	Marshall, Indiana
Beggs, Charles Norman	CE	85	* †	St. Louis, Missouri
Begun, Melvin Robert	LawP	14½	* †	Hebron
Behl, John Adam	CE	2½	* †	Assumption
Behrends, James Hurley	Agr		* †	Hersman
Behrens, Catherine Schleder	HELAS		* †	Pekin
Beidler, Herbert Bishop	Arch	110	* †	Auburn, Indiana
Beien, Frank Michael	Bus	96½	* †	Sterling
Beightler, Donald Sprague	Accy	106	* †	Marysville, Ohio
Beimer, John Clifford	CE	8	* †	Sac City, Iowa
Bell, Allen Chester	AE	4	* †	Chicago
Bell, Donald Sexton	Law	18½	* †	Springfield
Bell, Grace	Bus	33½	* †	Bondville
Bell, Harley Fenton	LawP		* †	Champaign
Bell, Harold Philip	Bus	100½	* †	Chicago
Bell, Harry Laurence	ME		* †	Highland Park
Bell, Herbert	Chem		* †	Springfield
Beil, John Archer	Jnl sp		* †	Champaign
Beil, John Haslett	LG	102	* †	Rushville
Beil, Joseph Sloan	MedP	26	* †	Urbana
Beil, Lowell Emma	Chem (SS)	108½	* †	West York
Bell, Margaret Eleanore	Bus		* †	Champaign
Bell, Mary Elisabeth	Chem	128	* †	Champaign
Bell, Richard Edwin	ME	38½	* †	Chicago
Bell, Robert Daniel	Agr (SS)	99	* †	Joliet
Bellamy, John William	AE	70	* †	Sandoval
Belleff, Vladimir Tance	Agr (SS)	98½	* †	Stroumitza, Bulgaria
Bell-Isle, Bertha Olive	Mus	86½	* †	Carthage
Belnap, Roy Miller	Bus	32½	* †	Evanston
Beloian, Haig	Agr	116½	* †	Chicago
Belt, Ford Elven	Agr	63½	* †	Prophetstown
Belton, Arthur Reginald	CE		* †	Virgen
Bence, Era	Mus sp		* †	Greencastle, Indiana
Bench, Stella Louise, A.B., 1919	SS	132½		Galena
Bender, Alfred Alaric	MinE		* †	Westville
Bender, Arthur LaRue	Agr		* †	Blue Island
Bengston, Norman Elliott	Bus		* †	Chicago
Benko, Molly	LAS		* †	Chicago
Benner, Ralph Eugene	ChE	30	* †	Abingdon
Bennett, Albert Francis	ME	6½	* †	Chicago
Bennett, Austin Harold	Bus	38	* †	Chicago
Bennett, Basil	Agr	100	* †	Dudley
Bennett, Emily May	HELAS	73	* †	Peoria
Bennett, Francis Harold	LawP		* †	Chicago
Bennett, George Lewis	CE		* †	Champaign
Bennett, Grendel Fenton	EE	8	* †	Marshall
Bennett, Marie, A.B., 1919	SS	131½		Champaign
Bennett, Parker William	Bus	115		Metcalfe
Bennett, Wayne Rosley	Bus (SS)	97½	* †	Washington
Bennitt, Fred Dwight	IndA	24½	* †	Joliet
Bennyhoff, Harry Franklin	ForC (SS)	27	* †	Vandalia
Benscoter, Melvin Jimison	CE		* †	Mason City
Benson, Eugene LeRoy	CE	69	* †	Batavia
Benson, Harold Gust	Bus	49½	* †	Mt. Carroll
Benson, John Harold	ME	59½	* †	Moline
Benson, Lois Pope	LAS	104½	* †	Herrin
Benson, Merrill Philip	CE (SS)	71	* †	Galva
Benson, Mitchell Joseph	LAS	31½	* †	Indianapolis, Indiana
Benson, Robert Gilson	MedP	24½	* †	Goreville
Bentley, Howard Hutson	Bank	64	* †	Clinton
Benton, Curtis	LAS	94½	* †	Macomb
Benton, Rosybell	MedP sp	33½	* †	Macomb
Benzing, Allan Sawyer	ME	2	* †	Evanston
Berendes, Edwin Christopher	Arch (SS)	39½	* †	Evansville, Indiana
Berg, Arvid Henry	Chem	38	* †	North Crystal Lake
Berg, Fred Leonard	Bus	92	* †	Moline
Berg, Herbert Andrew	Agr	24½	* †	Riverside
Berger, Henry George	ChE	65½	* †	Chicago
Berger, Henry Kasper	EE		* †	Murphysboro
Berger, Paul Jens	AE	34	* †	Davenport, Iowa

Berger, Victor Ewald	Bus		† Bremen, Indiana
Bergfeld, Dorothy Adelaide	Jnl		† St. Louis, Missouri
Bergh, William	Bus	58	† Newton, Kansas
Bergman, Gale McKinley	AE		† DuQuoin
Bergquist, Carl Frederick	CE		† Geneseo
Berkowitz, Abraham Isaac	C & L	2½	† Mattoon
Berlin, Harold Robert	SS	13	• Chicago
Berline, Henry Lee	FOM (SS)	100	• White Hall
Berman, Louis	EE	54	• Chicago
Bernard, Clifford Shaffer	Arch	143½	• Wellman, Iowa
Bernbaum, Barnett Russell	EngPh	11½	• Cleveland, Ohio
Berners, Edgar Hubert	AE	72½	• Port Washington, Wisconsin
Bernhardt, Wilbert	CE	105½	• South Bend, Indiana
Bernhisel, Luther Melancthon, Jr.	CE (SS)	23½	• Evanston
Bernreuter, Ruth Ada	LAS	106	• Nashville
Bernstein, Herbert Saul	Bus	24	• Chicago
Bernstein, Maurice	ChE		• Chicago
Berry, Kenneth Crawford	LAS	68	• Carthage
Berry, Lawrence Joseph	Agr	64½	• El Paso
Berry, Richard Joseph	Arch		• El Paso
Bert, Archie Leon	Chem		• Quincy
Beshers, Hugh Monohan	CE	35½	• El Paso
Best, Julia Frances	Jnl	64½	• Milford
Best, Richard Bland	Agr	67½	• Lerna
Best, Robert Willingham	AE		• Waco, Texas
Betts, Paul Watrous	MinE	2	• Chicago
Betz, Lyman B.	Bus		• Hammond, Indiana
Betz, Roscoe Richard	Bus	33	• Osageo
Bickel, John Joseph, Jr.	Arch	111	• Chicago
Biddle, Adrene	LAS		• Anderson, Indiana
Bidinger, Edwin James	Jnl	37	• Waukegan
Bidwell, Preston Hyde	MedP		• Allica, Indiana
Biedermann, Edward Adolph	Bus	96½	• Oak Park
Bielby, Ella Frances	HELAS		• LaGrange
Bierbower, Mabel Fern	SS		• Bellflower
Bierfeldt, Lloyd	ME		• Tuscola
Biespiel, Samuel Lenard	Bus	33	• Chicago
Biester, Charlotte Elizabeth	HELAS	53½	• Belvidere
Billerbeck, Ernest Raymond Carlos	Arch	34½	• Freeport
Bills, Forrest Wesley	Bus	31½	• Geneseo
Bills, Fred Stephen	Accy	22½	• Waukegan
Binford, Joseph Rowe, Jr.	ChE		• Peoria
Bing, Arline Leucht	LAS		• Urbana
Bing, Bertha Helen	Law	49	• Urbana
Bingham, Edmund William	EE		• Dundee
Binyon, Mrs. Josephine A.	SS	4½	• Urbana
Birckelbaw, Dorothy Lucretia	LAS		• Bloomington
Bird, Edward	Voc rsp		• Champaign
Birdsall, Charles GriEen	ChE	129½	• Clinton Corners, New York
Birks, Ren Eola	HEAgr	10	• Cornland
Bischof, Rudolph Joseph	Bus		• Pinckneyville
Bishop, Richard Edgar	Arch	8	• Champaign
Bishop, Romalda Theresa	LAS	60	• St. Louis, Missouri
Bishop, Samuel Dewey	Agr	29½	• Perry, Missouri
Bissell, Cushman Brewer	LawP		• Chicago
Black, Albert Gain	Agr	95½	• Peoria
Black, Francis Wilson	Bus	8	• St. Louis, Missouri
Black, George Irvine	Agr		• Chicago
Black, Helen Fern	LAS	60	• Palestine
Black, Karl William	LawP (SS)		• Paris
Black, Raymond Henderson	ForC		• Rock Island
Black, Ruth Frances	Law	28	• Paris
Black, Ward Norris	SS	48	• Palestine
Blackard, Clara	LAS	34	• Harrisburg
Blackard, Mary	LAS	62½	• Harrisburg
Blackburn, Bertha Florence, A.B., 1911	Lib	19½	• Champaign
Blackford, Robert Rea	Bus		• Charleston
Blackman, Alfred Watson	Agr	63½	• Bloomington
Blackstone, Henry	EE (SS)	76½	• Chicago
Blackwell, Robert Eldridge	Agr		• Champaign
Blakie, Muyrel Mae	SS	6	• Terre Haute, Indiana
Blaine, Jesse Lineus	ChE		• Chicago
Blair, Daniel Augustus	LawP	113½	• Murphysboro
Blair, Edith Louise	SS		• Herrin
Blair, Josephine Van Horn	LG	60	• Urbana
Blair, McKendree McElfresh	LAS	32	• Jacksonville
Blair, Mabel Elizabeth	SS	8	• Danville
Blair, Sarah Elizabeth, A.B., 1892, LL.B., 1903	SS		• Alton
Blair, Thomas Edison	LAS	45½	• Sao Paulo, Brazil
Blakely, Loy John	Agr	27½	• Kibbourne
Blakeslee, Elizabeth	HELAS (SS)	101½	• Chicago
Blandin, Myrtle Marie	SS		• Peoria
Blasey, Frank Earl	ME	2½	• Tiskilwa
Blatt, John Frederick	ChE	28½	• Kankakee
Blessum, Norman Fridjof	CE	2	• Chicago

Bietsch, Arthur Ralph	ME		* † Highland Park
Blevins, Lusettie	SS	22½	Atwater
Blevins, Olive May	SS	15	Atwater
Blew, Pharis Wheeler	ME	2	* † Chicago
Blinn, Edwin Ralston	Accy	38½	Butte, Montana
Bliss, Helen	HEAgr		* † St. Louis, Missouri
Bliss, James Harrison, Jr.	LawP	61½	* † Little Rock, Arkansas
Bliss, Stanley Waters	Arch	105	* † Little Rock, Arkansas
Blix, Einar Thomas	AE	131½	* † Fargo, North Dakota
Block, Louis	LAS	44½	* † Joliet
Blomberg, Carl Xerxes	ForC	29½	* † Rockford
Bloodgood, Owen	RA	95½	* † Aurora
Bloodgood, Wylie	Arch	110	* † Aurora
Bloom, Peter Earl	Agr	84	* † Caddo, Oklahoma
Bloom, Ruth Elouise	LAS		* † Urbana
Bloomfield, Mrs. Alice Sayers	LAS (SS)	2	* † Urbana
Bloomington, Paul Harold	Law		* † DeKalb
Blough, Florence Evelyn	HEAgr		* † Benton Harbor, Michigan
Blount, Walter	MedP	67½	* † Oak Park
Blue, Walter Anthony	CE	28½	* † Webster City, Iowa
Blum, Arthur George	LAS sp		* † Mascoutah
Blum, Ethyl May, A.B., 1907	Lib		* † Springfield
Blumenthal, Morris Arthur	LAS		* † Gary, Indiana
Blundy, Reed Willard	Agr	8	* † Brimfield
Blunt, Edith Susan	Bus	33½	* † Urbana
Bluthardt, Oscar David	ChE	34	* † Chicago
Bly, Anna Harriet	Accy	64½	* † Morris
Boardman, Curtis Love	Arch	110	* † Hoopeston
Boardman, Helen Myndwell	SS	1½	Plainfield
Boardman Stanton Knight	Bus		* † Hoopeston
Bobbitt, Andy Paul	Voc tsp		* † Chicago
Bockstahler, Mrs. Alma Sommer	SS	2	Urbana
Bockstahler, Oscar Leo	SS	5	Urbana
Bocock, Clyde Logan	Bus	52	* † Peoria
Bodenschatz, Arthur Harold	ME	111	* † Chicago
Bodkin, Maurice Coleman	SS	8	Somerset, Indiana
Bodman, William Sereno	LAS		* † Bement
Boehme, Carl Frederick	Agr	30½	* † Lockport
Boehner, Charles Albert	EE	2½	* † Aurora
Boellner, Virginia Mildred	Bus	98½	* † S. Louis, Missouri
Boeschenstein, Charles Krome	SS	95½	Edwardsville
Boeschenstein, Harold	Bus (SS)	123½	Edwardsville
Boesen, Peter John	EE	116	* † Cabery
Boggs, Elizabeth Frances	LAS		* † Urbana
Bogue, Beulah Catharine	HELAS	31½	* † Bement
Bohn, Fred	CE	18½	* † Irvington, Iowa
Bohn, Gerhard Herman	ME	42	* † Lockport
Bohnen, Edwin Joseph	ME	37	* † Chicago
Bohon, Rane Samuel	Bus	30½	* † Decatur
Bohrer, Joseph Fifer	Agr	45½	* † Bloomington
Boice, Ada Lenore	LAS		* † Eldora
Boice, Milford Coa	EE	93½	* † Champaign
Bojunga, Oswaldo	Bus sp		* † Pelotos, Brazil
Bolender, William Adam	ME		* † Rockford
Bolger, William Henry	ChE	27½	* † Chicago
Boienbach, Elmer Rising	EE	36½	* † Wheeling
Boller, Irene Mae	Agr	57½	* † Chicago
Bollinger, Francis Lewis	EngPh	34½	* † Chicago
Bollinger, Omar John	LAS		* † Champaign
Bolser, Helen Elizabeth	LAS		* † Newcastle, Indiana
Bonansinga, Frank Samuel	Bus	8	* † Jacksonville
Bond, Emerson	Chem		* † Harrisburg
Bond, Eugene Howard	SS	4½	Farina
Bond, Margaret Elizabeth	Chem		* † Joliet
Boner, Donald Gus ne	Bus		* † El Paso
Boner, Enid Eva	Bus	20½	Urbana
Boner, Lyle Kingdon	Bus	24½	El Paso
Bonnen, Clarence Alfred	Agr	112½	* † Gibson City
Bonness, Walter Erich Will am	EE	6½	* † Chicago
Booker, Courtland Spencer	ME	37½	* † Washington, D. C.
Boos, Raymond Winfield	ME	62	* † Chicago
Boot, George William, J.	EE	13½	* † Evanston
Bopp, Harold Franklin	CerE		* † Dundee
Borah, Loco Wilson	SS	131	Fairfield
Borders, Irvin Dougherty	EE		* † Kansas City, Missouri
Bordner, Russell Munroe	ME		* † Freeport
Borgelt, Eda Marie Charlotte	LAS	90½	* † Havana
Borgmeier, Casper Oscar	Accy	100½	* † Bicknell, Indiana
Boring, Benjamin Franklin	ME	79	* † Robinson
Borough, William Ray	LAS		* † Lawrenceville
Borowski, Stanley	Voc tsp		* † Decatur
Borr, Abe Nathan	ME	5½	* † Chicago
Borucki, Louis Francis	ME	119	* † Chicago
Boshell, Edward Owen	MedP		* † Melvin
Bosworth, Howard Ralph	EE	109	* † Marseilles
Bott, Margare	SS	10½	Urbana

Bot s, Robert Chellis	CE		* † Industry
Boucher, Nellie Genevieve	LAS (SS)	124½	* † Carbondale
Bouin, Juliette	LAS sp		* † Bordeaux, France
Bourland, Theodore Preston	Bus	8	* † Pontiac
Bouton, Arthur Franklin	Bus		* † Little Rock, Arkansas
Boutwell, William Dow	Jnl	35½	* † Waukegan
Bovey, Joseph Wi am	Agr		* † Littleton
Bowditch, Harvey Russell	Agr	97½	* † Urbana
Bowen, Abner Hiram	ME	22½	* † Delphi, Indiana
Bowen, Charles Edward	Bus (SS)	25½	* † Delphi, Indiana
Bowen, Clarence Robinson	CE		* † Chicago
Bowen, Clarence William	Bus		* † Chicago
Bowen, Claude Morris	SS		* † Georgetown
Bowen, Cromwell	ME		* † Wilmette
Bowen, Richard White	Bus		* † Jerseyville
Bower, Daniel Lee	SS	7½	* † Medora, Indiana
Bowers, Harry Milton	LawP	2½	* † Beardstown
Bowersock, William Michael, B.S., 1919	SS	142½	* † Maroa
Bowey, Donald Fyfe	ChE	34½	* † Chicago
Bowlar, Felix Fielding, A.B., 1906	SS	23½	* † Cairo
Bowles, Ernelle	SS	8	* † St. Louis, Missouri
Bowles, Frank Edward	LAS	22	* † St. Louis, Missouri
Bowles, Walter Sheriff	IndA	83	* † Springfield
Bowlus, Hazel W. A.B., 1915	Mus irr	143½	* † Urbana
Bowman, Floyd Walton	Agr	57½	* † Owana
Bowman, Harold	Bus sp		* † Sauk City, Wisconsin
Bowman, John Stanley	Bus	22½	* † Rockford
Bowman, Marie	Mus		* † Atwood
Bowman, Merton Wilson	CE	54½	* † Elainstown, New Jersey
Boyarski, Maurice	Jnl	67½	* † St. Louis, Missouri
Boyd, Laura Margaret	LAS		* † Lewistown
Boyd, Thomas Alexander	Bus	34	* † Lewistown
Boyd, William Ralph	Agr	46	* † Gays
Boyer, Charles Price	SS		* † Urbana
Boyer, Miriam Wakefield	LAS		* † Bloomington
Boyle, John Russell	ME	85	* † Chicago
Boyle, Louis A bert	Agr	28	* † Hennepin
Boyle, Marie Agatha	LAS	7	* † Stonington
Boyle, Ruth Frances	LAS	65½	* † Stonington
Boyle, Violet Beatrice	HEAgr	100½	* † Hennepin
Boynton, Harold DeWolf	LAS	15½	* † Aurora
Boza, Alfonso Ezeta	ME		* † New York, New York
Braasch, Karl William	AE	8	* † Sheboygan, Wisconsin
Brabrook, Arthur Nelson	LAS	57	* † Oak Park
Bracewell, Vera Faye	SS	63½	* † Kincaid, Kansas
Bracken, Dwight Funk	Agr	66	* † Bloomington
Bracy, William Layne	Accy		* † Cartersville
Bradbury, Marie Margaret	HELAS	101½	* † Urbana
Bradish, Cyrus Peck	CE	8	* † Ottawa
Bradley, Carol	SS	110	* † Hume
Bradley, Corydon Collins	C & L		* † Springfield
Bradley, Howard Samuel	MinE	8	* † Mokena
Bradley, James Robert	Bus	2½	* † Murray, Kentucky
Bradley, Madeleine deLamar	Jnl		* † Oklahoma City, Oklahoma
Bradley, Richard Smith	CerE		* † Bement
Bradt, Andrew Glidden	Bank	36	* † DeKalb
Bradt, Elizabeth	LAS		* † DeKalb
Bradt, Mariann	LAS	119½	* † DeKalb
Bradway, Irving Elmer	IndA		* † Grand Haven, Michigan
Brady, Geneva Wood	Mus sp	1	* † Champaign
Brady, Ralph Waldo	REE		* † Windsor
Brady, Ruth Emily	Agr		* † Chicago
Brain, Marjorie Irene	LAS	21½	* † Chicago
Brain, Oliver Galbraith	EE	107	* † Chicago
Braman, William Henry	CE	53½	* † South Bend, Indiana
Bramberg, Rudolph William	Bus		* † Oak Park
Bramble, Zenda June	LAS	30	* † Champaign
Brame, Millard Everett	Agr	99	* † Le Roy
Bramwell, Harry Lisle	CerE	30	* † Idaho Falls, Idaho
Bramwell, Lavon S	LAS sp		* † Idaho Falls, Idaho
Branan, Daniel Webster, Jr.	Accy	8	* † Mutton
Branch, Lester Monroe	Bus	7½	* † Evanston
Branch, William Marshall	Bus	19	* † Evanston
Brand, Royden Earl, B.S., 1909; M.S., 1912	Agr irr		* † Danville
Brandt, Walter Edward	ChE	8	* † Davenport, Iowa
Branham, Ivan Bundy	Chem	65½	* † Urbana
Branigan, Dan Andrew	CE	49	* † Amboy
Brannan, Howard Joseph	Bus		* † Beardstown
Brannan, Robert Hermann	Jnl		* † Beardstown
Brannen, Margaret Agnes	SS	2	* † Champaign
Brant, John Bennett	Bus	17	* † Bushnell
Braucher, Margaret Doten	LAS	59	* † Emporia, Kansas
Braucher, Ralph Loren	Bus	30½	* † Bement
Brauer, Henry Ernest	ChE	117	* † Red Bud
Brauns, Esther Dorothy	Bus	10½	* † West Chicago

Braunsdorf, Reginald Kenneth	EE	110	* † Mattoon
Brayton, Margaret Morrison	LAS		* † Joliet
Brazeau, Guy Stanton	Bus	26	* † Nekoosa, Wisconsin
Brazelton, Florence Carter	LAS	30	* † Greensburg, Indiana
Breathwit, Rachel Augusta	LAS	107	* † Wichita Falls, Texas
Breckenridge, Marie Renfrew	HEAgr	54½	* † Urbana
Brede, Erwin Charles	AE	89½	* † Collinsville
Bredehoeft, John Fred	Accy	32	* † St. Louis, Missouri
Bredehoeft, Nellie Matilda, A.B., 1908, A.M., 1911	SS		* † Danville
Bredfeldt, Charles	CE	107½	* † Chicago
Bregman, Walter Isadore	Bus (SS)	95½	* † Chicago
Brehm, Helen Evelyn	LAS		* † Washington, D. C.
Bremer, Abraham Meyer	Bus	86	* † Depue
Bremer, Jesse Currier	CE	26½	* † Hillsboro
Brennan, James Thomas, Jr.	ME	33	* † St. Louis, Missouri
Brennan, Jessica Wilma	Bus		* † Ogden
Brenne, Arild Morin	ME	68	* † Chicago
Brenner, Russell Talmadge	MedP		* † Quincy
Bressee, John James	CE	35½	* † Mattoon
Bressee, Paul Kirk	Agr		* † Mattoon
Bresett, Elward Morton	SS	3	* † Terre Haute, Indiana
Brew, George Joseph	SS	43½	* † Chicago
Brewbaker, Harvey Edgar	Agr	80	* † Bardolph
Brewer, Clarence L.	SS		* † Ashmore
Brewer, Ellen Ruth	LAS		* † Champaign
Brewer, Fred Samuel	Agr	9½	* † Atwood
Brewer, Horace Lorin	AE		* † Peoria
Brewington, Robert Julian	Bus	14	* † Indianapolis, Indiana
Brewster, William Goddard	Bus	70½	* † Chicago
Brickhouse, Linwood Leonard	LAS	39	* † Little Rock, Arkansas
Brickley, Ciella Mae	LAS	94½	* † Berne, Indiana
Bridegroom, Hugh Ginther	LAS		* † Leisers Ford, Indiana
Bridegroom, Paul Lough	CE	41½	* † Leisers Ford, Indiana
Bridgford, Lyle Coleman	Agr	113	* † Joy
Bridgewater, Earl	LAS		* † Moweaqua
Briem, Rose Doris	LAS (SS)	79	* † Omaha, Nebraska
Brigadier, Maurice Chester	LawP	26½	* † Bayonne, New Jersey
Briggs, Alfred Warren	Bus		* † Morrison
Briggs, Dorothy Frances	LAS	57	* † Kansas City, Missouri
Brigham, Neal Dow	EE		* † Indianapolis, Indiana
Bright, John William	EE	35	* † Chicago
Brightwell, James Erskin	Bus	2½	* † Aurora
Brimblecom, Henry Huntington	ME		* † Waukegan
Bristol, Robert Stafford	Accy	40	* † Chicago
Britt, John James	Bus	32½	* † Freeport
Brittan, Henry Wheeler	LawP		* † Quincy
Brittingham, June Esther	HEAgr		* † Alvin
Britton, Benson Elsworth	Bus	4	* † Mounds
Britton, Erma Estal	LAS	18½	* † Gibson City
Britton, Harry Bell	CE	8	* † Sesser
Britton, Nellie May	HELAS		* † Mounds
Britton, Waldo Vincent	ForC	19½	* † Ashley
Broadhurst, Elizabeth Maury	HELAS (SS)	100	* † Champaign
Broadhurst, Tabitha Jayne	Mus sp (SS)		* † Champaign
Broadwell, Lelia Esther	HELAS	29	* † Fairbury
Brock, Glen Porter	Bus	30	* † Palestine
Brockmiller, Harry	AE	5½	* † Carlinville
Brodfehrer, Fred Michael	Agr	72	* † Chicago
Brodie, Julius	Agr sp		* † Baltimore, Maryland
Brody, George	LAS		* † Madison
Brokaw, Mary Isabella, A.B., 1912	Lib (SS)	38½	* † Lawrence, Michigan
Brolin, Marion Theodora	HELAS	122½	* † Rockford
Bromm, Alvin Carl	LG	117½	* † Evansville, Indiana
Bromm, Carl Reinhold	Bus		* † Evansville, Indiana
Bromstedt, Earl Walter	Bus	8	* † Chicago
Bromwell, Matthew Scott	Agr sp	6	* † Washington, D. C.
Bronski, Chester Russell	EE	2	* † Chicago
Bronson, Ethel Lucille	CCS	78	* † Chicago
Brook, Clarence Louis	EE	31½	* † Highland
Brooks, Chester Alexander	Agr	93	* † Stronghurst
Brooks, Eugene Sheffner	ME	4	* † Evanston
Brooks, James Knox	Agr	24	* † Forney, Texas
Brooks, James Read	Accy	32	* † Chicago
Brooks, Joseph Chaney	Agr	123½	* † Forreston
Brookshire, Irene	LAS		* † Decatur
Brookshier, Mae Zella	LAS	30	* † Decatur
Broom, Cohea Allen	SS	62½	* † Effingham
Broom, Mybert Eustace	LAS (SS)	63½	* † Effingham
Broom, William Lewis	Bus	23	* † Effingham
Broshar, Helen	LAS	101	* † Champaign
Brosman, Paul Williams	LawP	29½	* † Albion
Brotherton, Edna Evelyn	LAS	27	* † Guthrie
Brough, Glen Amos	ChE	96½	* † Plymouth
Brown, Alice Elizabeth	Bus		* † Urbana
Brown, Mrs. Bertha States	LAS		* † Urbana

Brown, Chester Arthur	EE	28½	* † Chicago
Brown, Donald	Bus	2½	* † Havana
Brown, Edna Elizabeth	LAS	26	* † Homer
Brown, Edward Tilden	Bus	71	* † Batavia
Brown, Elizabeth	HEAgr		* † Sparta
Brown, Era David	Ath (SS)	62½	* † Urbana
Brown, Florence Alice	Mus sp		* † Chicago
Brown, Frederick Joseph, Jr.	EE	8	* † Evanston
Brown, George Bentley	ME	33½	* † Wyoming
Brown, George Elmon	ChE		* † Chicago
Brown, H Le Roy	SS	5	* † Evanston
Brown, Henry James	EE	17	* † Chicago
Brown, Howard Elsworth	Agr		* † Vermont
Brown, Kenneth Cotton	ME	66	* † Chicago
Brown, Mrs. Kenneth Cotton	Mus sp		* † Chicago
Brown, Lorene	LAS	99	* † Genoa
Brown, Lucian Henry	Agr	4½	* † Greensburg, Indiana
Brown, Lyle Chase	Bus	34	* † DuQuoin
Brown, Lyle Rebecca	LAS		* † Momence
Brown, Marjorie Jane	LAS	102	* † Alton
Brown, Mary Elizabeth	LAS (SS)	16	* † Greensburg, Indiana
Brown, Morris	ChE		* † Sparta
Brown, Paul Franklyn	LAS		* † St. Louis, Missouri
Brown, Paul Maurice	Bus	54	* † Nokomis
Brown, Ralph Hadden	Agr	86	* † Culler
Brown, Ralph Newton	Agr (SS)	79	* † Greensburg, Indiana
Brown, Ruth Adams	LAS	32	* † Quincy
Brown, Stanley Lewis	Agr	2½	* † Chicago
Brown, Wallace Winthrop	LawP	69	* † Joliet
Brown, Wayne James	Bus	8	* † Sparta
Brown, Winnifred Urline	MedP	45½	* † Carmi
Browning, John Roy	Law	28	* † Golconda
Browning, Nancy Pope	LAS	60	* † Benton
Browning, Robert Mark	MedP		* † Mt. Carroll
Bruce, Frank Jay	SS	85½	* † Peru, Indiana
Bruce, Warren Cobine	ChE	32½	* † St. Louis, Missouri
Brudi, Lawrence Edward	LAS		* † Mt. Carroll
Bruggner, Louis Vincent	Jnl		* † South Bend, Indiana
Bruhn, Elmer Franklin	CE	30	* † Tuscola
Brundage, Carl Hildenbrand	Agr		* † Seneca
Brunkow, Charles Daniel	MedP		* † Chicago
Brunkow, Otto Edwin	Arch	33	* † Dubuque, Iowa
Brunnemeyer, Henry Raquet	Agr	95	* † Aurora
Bruns, Melvin William	CE	2	* † St. Charles, Missouri
Brunson, Mrs. Martha Taft	SS	3½	* † Gloucester, Massachusetts
Brya, Augusta Marcus	SS	20½	* † Champaign
Brya, Leo Edward	Agr sp	28	* † Champaign
Bryan, Jennings Mathews	Bus	65	* † Chicago
Bryant, Anna May	Bus	62	* † Oak Park
Bryant, Burton Kellogg	LAS	47½	* † Chicago
Bryant, Earle Ruskin	SS	7	* † Decatur
Bryant, Robert Beach	Agr	34½	* † Princeton
Bryant, William Cullen, Jr.	CE		* † Gibson City
Buchan, Evelyn	SS	11	* † Chicago
Buchan, Leslie James	Bus	29½	* † Clarion, Iowa
Buchanan, George Victor, Jr.	Jnl	40½	* † South Norwalk, Connecticut
Buchanan, Gordon, Jr.	MinE (SS)	34	* † Highland Park
Buchanan, Lloyd Jory	Agr	4½	* † Whiting, Indiana
Buchanan, Marjorie	HELAS		* † Champaign
Buchanan, Martha Pearl	HEAgr	28½	* † Lawrenceville
Buchanan, Willard Robert	ChE	8	* † West Chicago
Buchen, Helen Louise	LAS	114½	* † Oshkosh, Wisconsin
Buchheit, George Clifford	SS	138½	* † Beardstown
Buck, Glenn Leonard	Agr	28½	* † Moline
Buck, Harold Millard	ME		* † Monica
Buck, Miriam Gertrude	LAS	84	* † Vincennes, Indiana
Buckler, Helen Irene	Jnl	63½	* † Champaign
Buckler, Howard Werner	Agr		* † Champaign
Buckley, Lillie Mary	LAS	29½	* † Champaign
Bucky, Philip Barnett	MinE	74	* † Chicago
Budan, Sylvia	HELAS		* † Chicago
Budd, Charles Henry, Jr.	Bank	8	* † Montevideo, Minnesota
Budhe, Jauardan Sahasra	Agr		* † Nagpur, India
Buehler, Herman Lenard	LAS	51	* † Chicago
Buehler, Walter Anthony	AE		* † Whiting, Indiana
Buehling, Erwin Laurance	Arch	21	* † Chicago
Buell, Charles Clinton, A.B., 1919	SS	130	* † Highland Park
Buford, Morgan	MedP		* † Chicago
Buhrmester, Catherine Caroline	LAS		* † Chicago
Bullard, Charles Elworthy	CE sp	30	* † Maywood
Bullard, James Daniel	SS	8½	* † Texico
Bullard, John Preston	Bank	8	* † Maywood
Bulley, Allan Edgar	EE (SS)	32	* † Kenilworth
Bullis, Grant Leon	Bus	7½	* † Rolo
Bullock, Boyd Willard	LAS	33½	* † Evansville, Indiana
Bullock, Margaret Helen	LAS		* † Earlville

Bullock, Norman Charles	Chem		† Rockford
Bulot, Charles Andre Jourdain	ChE		† LaGrange
Bumpas, Lena	SS		† Dallas, Texas
Bumstead, Alice May	LAS		† Colorado Springs, Colorado
Bundy, Royce Teller	Bus	2½	† Mazon
Bunn, William Benton	Agr	118	† Olney
Buntin, Catharine	HEAgr	50	† Bushnell
Burch, Laurence Arthur	EE	8	† Mokence
Burd, Elizabeth Grace	HEAgr	24	† Perry
Burd, Katharine Wilson	LAS	30	† Perry
Burge, Olav Dobbins	ChE		† Wichita, Kansas
Burgee, James Brown	Accy (SS)	68½	† St. Louis, Missouri
Burgess, Jessie Glenn	LAS sp (SS)	7	† Fairfield
Burk, Leo	Law	9	† Danville
Burk, Raleigh	CE		† Danville
Burk, Vivian Ethel	LAS	58½	† Decatur, Indiana
Burke, Elmer Daniel	Agr	8	† Champaign
Burke, Eugenia Gertrude	LAS	96½	† Carlinville
Burke, John Arthur	ME (SS)	113½	† Champaign
Burkhardt, Oscar Edwin	ChE	35½	† Edgerton, Ohio
Burleson, Howard Chauncey	Bus (SS)	93	† Champaign
Burley, Paul Brown	EE	101½	† LaGrange
Burnell, William Reese	EE (SS)	67½	† Spring Valley
Burnett, James Lawrence	ME		† Eldorado
Burnham, Josephine Mae	LAS	43%	† Aurora
Burns, John Kenneth	MedP		† Oakland
Burns, Johnson Greer	LAS		† Greenfield
Burns, Olyde Blanche	SS	5	† Russiaville, Indiana
Burns, Owen McIntosh	Law	55	† Danville
Burns, Ralph Francis	RA	99½	† St. Louis, Missouri
Burnside, Karl Ackerman	AE	115	† Orleans, Iowa
Burr, Edwin Freeman	Bus	7½	† Rockford
Burr, Emily A	LAS		† Philo
Burrell, Gretchen	LAS		† Lombard
Burres, Joseph Reuben	Bus		† Tuscola
Burris, Ethel May	LAS	32½	† Danville
Burris, Joseph Gorman	LAS		† Newcastla, Indiana
Burris, Marshall John	CE		† Girard
Burris, Quincy Guy	LAS		† Danville
Burritt, George Evans	CE	32½	† Rockford
Burritt, Lewis Everett	ForC		† Rockford
Burrows, Austin Hafflee	ME		† Warren
Burt, Brian Parker	MinE	8	† Kenney
Burt, Josephine	LG	65	† Urbana
Burtis, Parker	Agr		† Hudson
Burton, Ruth Beatrice	LAS	41½	† Urbana
Burton, William Jennings	ME	8	† Murphysboro
Burwash, Lucie Pauline	HELAS	113½	† Champaign
Burwash, Maynard Boswell	Agr	32	† Champaign
Burwash, Ruth Margaret, A.B., 1919	SS	138½	† Champaign
Buschmann, Mary Louise Elizabeth	SS	16	† Edwardsville
Busey, Margaret Jeanette	Chem	101	† Urbana
Bush, Alexander Tecumseh, B.S., 1919	SS	136½	† Glencoe
Bush, Della Mae	LAS		† Clinton
Bush, Donald William	LG	60	† Kansas City, Missouri
Bush, Franklin Hubbard	Bus	20	† Joliet
Bush, Harold Lockley	ME	8	† Quincy
Bush, Lloyd Wesley	SHA Agr	68	† Nebo
Bushnell, Florence Genevieve	LAS	98½	† Chicago
Bussart, Ora Ivan	Jnl		† Paris
Busse, Edward Clarence	CE	68½	† Twin Lake, Michigan
Busse, Robert Charles	Chem		† Canton, Mississippi
Butcher, Maymebelle	SS		† St. Joseph, Missouri
Butler, James Allen	ME	29½	† Valparaiso, Indiana
Butler, John Bruce	AE (SS)	63½	† Cairo
Butler, Maude Marie	HELAS	98	† Chatham
Butler, Ruth Eliot	LG		† Huntington, Indiana
Butman, Jack Edward	ME		† Chicago
Butner, Wendell Boise	MedP <sub>i</sub>		† Harrisburg
Butterbaugh, Homer Wolf	ME	21½	† Lanark
Butterfield, Helene Gertrude	Jnl	29½	† Wilmington
Butterworth, Alfred Lindley	Bus	44	† Marion, Indiana
Buttinghausen, George August	Ath		† Bloomfield, New Jersey
Butts, Ruby Darlene	LAS		† Harvard
Butzer, Alfred John Martin	ChE	2½	† Hillsdale
Byerley, Jacob Roy	SS	17	† St. Joseph
Byerley, Robert Orville	CerE		† Callin
Byers, Donald Morrison	Chem	40	† Garrett, Indiana
Bysack, Bhupenda Nath	RA (SS)	74½	† Calcutta, India
Byvank, Elsie Delia	Bus		† Waterloo, Iowa
Cabalek, Anna Elizabeth	Bus	28½	† Villa Grove
Cable, Erma Elizabeth	LAS	39	† Chicago
Cable, Merwyn Harden	ForC	60	† McAllen, Texas
Cadaval, Eduardo Gonzalez, Jr.	ME	72	† Durango, Mexico
Cade, Harriet Clark, A.B., 1919	SS	131½	† Veedersburg, Indiana
Cade, Helen Jane	HELAS	20	† Penfield

Cadenhead, George Lorimer	ME		• † Winnetka
Cadmore, John Rannells	Agr	23	• † Waukegan
Cadwell, Charles Stewart	EE		• † Chicago
Cadwell, Harold Edgar	Bus	45½	• † Rockford
Cagann, Oscar William	Bus	87½	• † Champaign
Cahill, Charles Adams, Jr.	AE	48	• † Milwaukee, Wisconsin
Cahill, Nellie Walsh	SS	20	• † Waterloo
Cailey, Marie Adelene	SS	7½	• † Tolono
Cain, Florence Ethel	Mus sp		• † Champaign
Cain, Joseph Ignatius	ME	4	• † Rock Island
Caine, Ernest McClain	Bus		• † Newcastle, Indiana
Caldwell, Mrs. Ellen Norris	LAS		• † Cambridge, Ohio
Caldwell, Harriett Woodcock	SS		• † Champaign
Caldwell, Helen Louise	LAS		• † Decatur
Caldwell, Ruth Margarethta	Bank	35½	• † Sheldon
Callais, Ada Mary	SS	7½	• † Danville
Callaway, Mildred Ione	LAS	53	• † Monett, Missouri
Callner, Saul Solkind	ChE	105	• † Chicago
Calta, Edward John	IndA	34½	• † Chicago
Calvery, Herbert Orion	SS	7½	• † Pencil, Texas
Cameron, Alan Bruce	ME (SS)	32½	• † Chicago
Cameron, Daisy Catherine	LAS	34	• † Dundee
Cameron, Grace Carol	Bus		• † Urbana
Cameron William Ray	ME	82	• † Galesburg
Camp, Chester Bennett	FOM	40	• † Casner
Campbell, Anna Mabel	LAS	73	• † Hutchinson, Kansas
Campbell, Carlos Elmer	Agr	73	• † White Hall
Campbell, Dewey Muscott	LAS	29	• † San Bernardino, California
Campbell, Donald Howard	Bus	21½	• † Chicago
Campbell, Eugene Shuey	ME		• † Tuscola
Campbell, Everett Wayne	MedP	36½	• † Washington, D. C.
Campbell, George Adam	Bus	77	• † Jasonville, Indiana
Campbell, Gertrude Louise	Mus		• † Monmouth
Campbell, Isabel Catherine	LAS (SS)	98½	• † Hanover
Campbell, Logan S	Bus	32	• † Traer, Iowa
Campbell, Margaret	HELAS		• † Chicago
Campbell, Nelson Wellesley	Bus	19½	• † Coal City
Campbell, Nigel Dovell	Bus	47	• † Albion
Campbell, Robert DuFay	CE	8	• † Rockford
Canaday, Franklin Augustus	Agr	30	• † Homer
Canedy, Cecil Adelbert	Agr		• † Mt. Carmel
Cannon, John Deering	Bus		• † Chicago
Cannon, Joseph William, Jr.	Bus	66½	• † Chicago
Cannon, Lester Cloyd	Agr (SS)	114	• † Tower Hill
Cannon, Opal	LAS	99	• † Jamaica
Cannon, Tyrone Murphy	ME	141½	• † Rapatee
Cannon, Ward Curtis	Agr	33½	• † Buckley
Cantrell, Charles Burdette	Bus		• † St. Louis, Missouri
Cantrell, Robert McFall	Bus	33½	• † Benton
Cantrell, Tilman Bethel	Law sp		• † Benton
Canty, Francis Coulson	LAS	31½	• † Chicago
Capouch, Myron Edwin	CE	41	• † Oak Park
Capron, Ruth Bidwell	LAS		• † Champaign
Carius, Fay Louise	LAS	30½	• † Moline
Carlsen, Ralph Armond	Accy (SS)	104½	• † Chicago
Carlson, Ambrose Ivenius	ME		• † Chicago
Carlson, Carl Bernard	CE	113½	• † St. Charles
Carlson, Carl Harold	Bus	8	• † Rockford
Carlson, Conrad Gillis	ME	25½	• † Rockford
Carlson, Harry Donald	CE	63	• † Chicago
Carlson, Herbert Nels Richard	EE	35½	• † Chicago
Carlson, Joel Williams	Bus		• † Rockford
Carlson, Lee Russell, A.B., 1916	SS	136	• † Clarence
Carlson, Leroy Vernon	ME	4	• † Rockford
Carlson, Melvin Carl	Bus	21½	• † Chicago
Carlson, Pau Leonard	CE(SS)	69½	• † Lake Forest
Carlson, Reuben Godfrey	Agr	75½	• † Chicago
Carlson, Solomon Wilhelm	CE	4½	• † Batavia
Carlson, Thomas William	CE		• † Evanston
Carlson, Winifred Jean	LAS	96	• † Chicago
Carlton, George Alexander	IndA	72	• † Chicago
Carlton, Harry Easter	LawP	8	• † Gary, Indiana
Carlyle, Glenn Wilson	EE		• † Albion
Carman, Lois	HELAS		• † Urbana
Carman, Omar Sinn	Agr (SS)	62½	• † Urbana
Carmichael, Arthur Kettlewell	Agr	19½	• † Rockford
Carmichael, Eunice Annie	LAS		• † Urbana
Carnahan, Charles Ewart	Law sp		• † Lead, South Dakota
Carney, Charles Roslyn	LAS	29½	• † Evanston
Carney, Sidney Sylvester	FOM	106	• † Steward
Caron, Justin August George	AE	23½	• † Oak Park
Caron, Robert Paul	SS	72	• † Kankakee
Carow, Norman John	MedP		• † Chicago
Carp, Rosamond Minnie	LAS		• † Highland
Carpenter, Erasmus Fayette	ME	21½	• † Williston, North Dakota
Carpenter, John Floyd	MedP		• † Rockton



Carpenter, Leon Hyre	AE	• † Urbana
Carr, Harris Burman	Bank	• † Tipton, Indiana
Carre, Chester Morey	Bus	• † New Orleans, Louisiana
Carre, Darwin Beach	LAS	• † New Orleans, Louisiana
Carre, David Morey	LAS	• † New Orleans, Louisiana
Carrell, William Dayton	MedP	• † Greenup
Carrithers, Henry Havens	Agr	• † Hudson
Carroll, Charles, III	Law	• † Shawneetown
Carroll, Ella Beatrice	LAS (SS)	• † Greenville
Carrothers, William Gaylord	ForC	• † Fairfield
Carson, Edgar B	Agr	• † Fremont, Iowa
Carson, Gerald Hewes	LAS	• † Carrollton
Carson, Raymond Clark	LawP	• † Pesotum
Carter, Benjamin Franklin	Voc vsp	• † Bluford
Carter, Edna	HELAS	• † Rossville
Carter, Frank Stanley	EE	• † Litchfield
Carter, Herbert Duane	ChE	• † Cleveland, Ohio
Carter, Joseph	Agr	• † Assumption
Carter, Lindley Lee	Agr	• † Hillsboro, Ohio
Carter, Margaret	LAS	• † Jamaica
Carter, Vena	Bus	• † Rockford
Carthaus, William James	ChE (SS)	• † St. Louis, Missouri
Cartland, Silas	EE	• † Pentwater, Michigan
Carver, Frederick Elmer	LG	• † Berwyn
Carvlin, George Michael	LAS	• † Chicago
Cary, Agnes Bernece	HELAS	• † LaGrange
Cary, Malcolm Combs	ME	• † Oak Park
Case, Everett Norris	SS	• † Anderson, Indiana
Casey, Alice	LAS	• † Chicago
Casey, William Jerome	MineE	• † Chicago
Caskey, George Rollin	ME	• † Chicago Heights
Casler, William Justa	CE	• † Louisville, Kentucky
Cassidy, Claudia Caro ine	Jnl	• † Urbana
Cassidy, George Grattan	LG	• † Urbana
Cassingham, Mary Dorothy	Jnl (SS)	• † Champaign
Casson, Thomas Francis	CE	• † Elgin
Castendyck, Jesse Ross	ME	• † LaSalle
Caster, Zella Verne	LAS	• † Mound City
Castle, Dunlap	Bus	• † Chicago
Castle, Richard Lloyd	Bus (SS)	• † Urbana
Catanzaro, Joseph Bernard	ME	• † St. Louis, Missouri
Cates, Harold Redding	ChE	• † Blue Island
Cathcart, Annabel Elizabeth	SS	• † Marissa
Cathcart, Jennie Mathews	Mus sp	• † Marissa
Catlin, Malcolm Cresswell	LG	• † Farmingdale
Catron, Ruth Hurd	Agr	• † Springfield
Cattell, Fred Roy	Bus	• † Salem
Catton, Miles Dewey	CE	• † Toulon
Caughey, Raymond Samuel	Agr	• † Chatsworth
Cavanaugh, Marie Elizabeth, A.B., 1919	Lib	• † Urbana
Cavins, Harold Maxon	Agr	• † Charleston
Cavins, Joseph Loren	EE	• † Normal
Cawthorne, Harold Jesse	LAS	• † Linesville, Pennsylvania
Cawvey, Clarence Eley	CE	• † Marion
Cecil, Lawrence Keith	SS	• † Homer
Center, Paul Peter	Bus	• † Chicago
Cessna, Evelyn Mildred	HELAS	• † Oak Park
Chabot, Arthur Simon	Agr	• † Kankakee
Chadwell, John Toole	LawP	• † Quincy
Chadwick, Archie Bailey	LAS	• † New Richmond, Indiana
Chalcraft, Delos Maurice	Agr	• † Albion
Chalfant, Maude Britton	SS	• † Carmi
Challacombe, Russell N	ME	• † Princeton
Chamberlain, Julia	HEAgr	• † Chicago
Chamberlain, Maurice Silloway	Bus	• † Peoria
Chamberlain, Olivia Langdon	LG	• † Chicago
Chamberlain, Roland McKendree	Agr	• † Houston, Texas
Chamberlain, Walter Orrin	ME	• † Berwyn
Chambers, Genevieve Dorothy	LAS	• † Chicago
Chambers, Mildred Carrie	LAS	• † Des Moines, Iowa
Chan, Im Hing	RA	• † Chicago
Chan, Siu Kun	SS	• † Hongkong, China
Chance, Gordon Merritt Fitz Gerrell	Agr	• † Washington, D. C.
Chance, James Howard	Arch	• † Salem
Chandler, Edwin Romick	Flor	• † Kansas City, Missouri
Chandler, George Asa	LG	• † Kansas City, Missouri
Chaney, Owen Lewison	Agr	• † Springfield
Chang, Chia Chieh	ME (SS)	• † Peking, China
Chang, Pao Tai	RA	• † Peking, China
Chang, Shih Hsing	ME (SS)	• † Washington, D. C.
Chang, Tsong Chen	Bus	• † Shanghai, China
Chao, Hwui Wu	ME (SS)	• † Honan, China
Chao, Wei Han	ME (SS)	• † Honan, China
Chapin, Paul Wisegarver	LAS	• † Clinton
Chapin, Ralph Marion	SS	• † Springfield
Chapman, Harold Harvey	Bus	• † Springfield

Chapman, Isador	CerE		* † Des Moines, Iowa
Chapman, Maxwell Cook	Agr		* † Carmi
Charles, Andrew Hoyle	CerE	119	* † Chicago
Charlet, Louis Walter	ME	108½	* † Kewanee
Chase, Anna Belle	LAS	95½	* † DeKalb
Chase, Carroll Gayton	LAS	67	* † River Forest
Chase, Fay Harold	EE	72½	* † River Forest
Chase, Joseph Harold	Agr	84	* † Toulon
Chatfield, Ray Edward	MinE	8	* † Mokena
Chatfield, Roy Hooy	Bus	2	* † Mokena
Cheaney, Thomas Franklin	EE	38	* † East St. Louis
Cheever, Hurlbert Craig	Arch	117½	* † Waterloo, Iowa
Chen, Yu Ching	CE (SS)	47	* † Sinyang, China
Chenoweth, George Le Roy	ChE	36	* † Hamilton, Maryland
Chernin, Maurice	Bus sp		* † Urbana
Cherry, Oscar Allen	Chem (SS)	115½	* † Pawnee
Child, Thomas Harold Gascoigne	MedP (SS)	30	* † Springfield
Childs, Bert Edwin	Voc vsp		* † Mason City
Childs, Edmond Lyman	Bus	47½	* † Lee
Childs, James Bennett, A.B., 1918	Lib (SS)	25½	* † Champaign
Chiles, James Clarence	Bus	21½	* † Allon
Chmelik, Frank, Jr.	Agr	44	* † Chicago
Choisser, Fern	LAS	88	* † Benton
Chou, Ching-fu	Agr (SS)	71½	* † Seattle, Washington
Chow, Hsieh Hsin	RA	14½	* † Tientsin, Chili, China
Chow, Sze Tsoong	RA		* † Shanghai, China
Christ, George Phillip	ChE	107	* † Quincy
Christ, Robert Johnson	CE (SS)	112½	* † Chicago
Christian, Elmer Charles	Agr	51½	* † Chicago
Christie, Charles William	MedP	31½	* † Rantoul
Christman, Frederick Nelson	Bus		* † Joplin, Missouri
Christopher, Lawrence Clark	LawP	28½	* † Jennings, Louisiana
Christophersen, Stanley Marimus	EE	122	* † Rockford
Christy, Mae	LAS	64	* † Urbana
Chuang, Chong Kong	Agr		* † Fukun, China
Chumbley, Francis Marion	Bus		* † Rantoul
Chung, Wei Chen	Bus		* † Chinkiang, China
Churchill, Mildred	LAS		* † Fairbury
Churchill, Woodford McDowell	Agr	124	* † Fairbury
Cinciewa, Walter Sylvester	Voc vsp		* † Chicago
Clabaugh, Charles Wesley	Bus		* † Mattoon
Clafford, Floyd Rowland	ME	8	* † Chicago
Clafin, Edward Cahoon	Bus	10	* † Lombard
Clancy, Margaret Patricia	SS	3	* † Chanpaigm
Clancy, Marion	SS	8½	* † East St. Louis
Clarahan, Lewis Arthur	Bus	93	* † Oak Park
Clark, Albert Le Roy	Agr (SS)	114	* † Chicago
Clark, Bruce Byrne	Agr	97½	* † Peoria
Clark, Chester Nicholas	EE	36	* † Champaign
Clark, Dean Meredith	Bus	13½	* † Chicago
Clark, Edith Lucile	LAS		* † Stella, Nebraska
Clark, Ephraim Stuart	Bus		* † Eureka
Clark, Francis Matthew	Agr	94	* † Forrest City, Arkansas
Clark, George Thomas	LAS		* † Washburn
Clark, Harold Dean	Bus	101½	* † Hinckley
Clark, Harry Cecil	FOM	68½	* † Champaign
Clark, Hollis Rushton	ChE		* † Alma, Michigan
Clark, James William	CE	93	* † Chicago
Clark, Jennie	HELAS	107½	* † Henry
Clark, John Elliott	LawP	26	* † Georgetown
Clark, John Henry	ME	29½	* † Champaign
Clark, John Peters	ME	2	* † Hegewisch
Clark, John Thomas	Bus		* † Elgin
Clark, Kathryn Dumford	LAS	30½	* † Winchester
Clark, Kenneth Woodyard	LAS	71	* † Washington, D. C.
Clark, Lloyd Talbert	Agr	54	* † Kinderhook
Clark, Marie Mildred	LAS	34	* † Ancona
Clark, Marshall Grant	Agr	97	* † Carthage
Clark, Robert Charles, A.B., 1911; B.S., 1919	SS	152½	* † Urbana
Clark, Rowland Fancher	Agr		* † Maurie
Clark, Thomas Edward	ME	73	* † Indianapolis, Indiana
Clarke, Harry	ME	8	* † Rock Island
Clarke, Walter James	Agr	567½	* † Chicago
Clary, Sarah Helen	Mus		* † Fruitdale, South Dakota
Clausen, Arthur Dwight	Agr (SS)	21½	* † DeKalb
Clausen, Arthur Martin	ME		* † Chicago
Clausen, John Thomas	ME		* † Kenwood, Missouri
Clauson, Samuel Raymond	LAS		* † Cicero
Claxton, Allen Enes	Bus		* † Hinsdale
Claxton, Alvie Jacob	Bus		* † Hinsdale
Clay, George Lee	AE		* † Lafayette, Indiana
Clay, Miriam Elliott, A.B., 1911	Lib (SS)	11	* † Grand Rapids, Michigan
Cleary, Raymond	ChE	8	* † Chicago
Cleavinger, Mrs. Cora Todd	SS	2	* † Urbana
Clegg, John Joseph	Agr	30	* † Chandlerville

Clem, Leslie Orin	Ath		* Bowen
Clement, Frank Robbins	CE	20	* Batavia
Clemente, Leopoldo Sydela Rosa	Agr		* Paombong, Bulacan, P. I.
Clemons, Robert Lincoln	HELAS sp		* Emporia, Kansas
Clemons, Pluma Lynk	Jnl		* Marshalltown, Iowa
Cleveland, Chester Wilson	Jnl (SS)	82½	* Plymouth, Indiana
Cleveland, Mary Jane	Bus	31½	* Plymouth, Indiana
Cleveland, Warren Eddy	ME	91	* Rockford
Clevenger, Clifford Dewitt	ChE		* Hillsboro
Clevenger, Elzo Gerald	Ath		* Muncie, Indiana
Clevenger, Mrs. Yolande Elwood	LAS	27	* Champaign
Clevidence, Thaddeus Oscar	LawP		* Los Angeles, California
Cleworth, Cecil Herbert	CE	8	* Hartford, Michigan
Cleworth, Clarence William	REE	89	* Hartford, Michigan
Clickener, Sarah Holcombe	SS	20	* Morrisonville
Clifford, Josephine Angela	SS	4	* Penfield
Clifford, Woodbridge Kenneth	Agr	111	* Orion
Cline, Marguerite Arabelle, A.B., 1919	SS	136½ <sup>12</sup>	* Urbana
Clippinger, Frank Warren	SS		* Dayton, Ohio
Clorfine, Irwin Bernard, A.B., 1919	SS	134½	* Chicago
Close, Paul Dunham	ME	111	* Chicago
Clough, Clarence Edison	Agr sp	8	* Lake Forest
Clover, Everett Le Roy	Agr	75	* Kankakee
Cloyes, Edith Field	Chem (SS)	90	* Chicago
Clute, Beulah Kathryn	LAS	59½	* Joliet
Clyne, John Mitchel	Bus	45½	* Maple Park
Coale, Arthur Vernon	LG	58½	* Peoria
Coale, Florence Laura	LG		* Peoria
Coan, Ivan Walker	Agr	66	* Houston, Texas
Coates, William Waldron, Jr.	CerE sp	8	* Kansas City, Missouri
Coath, Virgil Walter	Bus	2	* Chicago
Coats, Nellie Mae, B.S., 1915	Lib		* Lafayette, Indiana
Cobb, Helen Dorothy	LAS	99½	* Rochelle
Cobb, Howard Roger	CE		* Buffalo, New York
Cobb, John Louis	SS	16½	* New Burnside
Cobb, Margaret Elizabeth	LAS		* Chicago
Cobb, Thomas Howell	SS		* New Burnside
Cochran, Florence Alwilda	LAS (SS)	105½	* Champaign
Cochran, Gilbert Emlyn	Bus	63	* Champaign
Cochran, Russell William	Law		* Champaign
Cochrane, Helen Marie	LAS	26½	* Danville
Coddington, Donald Clyde	Agr	8	* Chicago
Coddington, Forrest Carter	ME	29½	* Urbana
Coen, Donald George	ME (SS)	30	* Normal
Coen, Margaret Willis	Jnl		* Mahomet
Coen, Mildred Miriam	LAS		* Greenville, Mississippi
Coen, Philip Albert	Agr		* Washburn
Coffee, Bess Anne	HEAgr	18	* Elgin
Coffeen, Richard Preston	ME	26	* Champaign
Coffey, George Davis	Agr		* Oakland
Coffman, Alden Williams	ChE	35½	* Davenport, Iowa
Coffman, Mark Stark	Bus	34½	* Augusta
Coffman, Willis Bryan	EE		* Flat River, Missouri
Coggan, Kenneth Mills	MedP	45%	* Clay City
Cohen, Edward Harry	ME		* LaSalle
Cohen, Florence	SS	20½	* Chicago
Cohen, Gerson Siegel	Bus	12	* Chicago
Cohen, Max	MedP		* Chicago
Cohen, Raphael	ME	26	* Chicago
Cohen Toba	LAS		* Chicago
Cohn, Eugene Ross	LAS sp		* Kankakee
Cohon, Beryl David	LAS (SS)	61½	* Chicago
Coldren, Fanny Alice	Lib sp		* Topeka, Indiana
Cole, Gardner	Chem	8	* Glencoe
Cole, Helen Berniece	LAS	30	* Peoria
Cole, James William	Bus		* Ludlow
Cole, Jirah Delano, Jr.	Agr	21	* Glencoe
Cole, Margaret	LAS		* Marshall
Cole, Stephen Earl	Bus	62½	* Williamsfield
Cole, William Robert	ChE		* Niagara Falls, New York
Coleman, Charles Haven	SS	6½	* Abingdon
Coleman, James Wade	ME	8	* Willow Hill
Coleman, Oren	LAS (SS)	104½	* Cartersville
Coley, Reginald Hobart	AE	14	* East St. Louis
Colin, Guillermo Garcia	ChE (SS)	59	* New York, New York
Colin, Leopold Garcia	Chem	30	* New York, New York
Collier, Anna Bess	LAS		* Urbana
Collier, Theodore Franklin	EE		* Peoria
Colligan, Neil Joseph	ME		* Chicago
Collings, David Burton	EE	29½	* Urbana
Collings, Elnor Dell	LAS	106	* Spring Valley
Collins, Arthur Frederick	Bus		* Maywood
Collins, Clarence Jackson	ChE	29½	* Champaign
Collins, Claude Delorum	Bus	33	* LaMoille
Collins, Earle John	Bus	25½	* Chicago
Collins, Harold James	MedP		* LaMoille

Collins, Ina May	LAS	104½	* Hillsboro
Collins, Julien Hampton, B.S., 1919	SS	130½	* Chicago
Collins, Walter Samuel	Agr	61½	* † Rockford
Collinson, Edna Rose	Bus		* † Dolton
Colson, Robert John	Law	28	* † St. Charles
Colvin, Esther Marie	LAS sp (SS)	18½	* † Nebo
Colvin, James Clinton	LAS	32½	* † Hillsboro
Colvin, Judson Ivin	Agr sp		* † Pearl
Colwell, Lyle Miller	Bus	70½	* † Ottawa
Colwell, William Tracy	CE	106½	* † Ottawa
Colyer, Raymond Green	MedP	87½	* † Carbondale
Comerford, Dean William	ChE	5	* † Joliet
Comstock, Chauncey Darling	Bus	68	* † Chicago
Comstock, John Aldrich	ME		* † Neoga
Comstock, Keyon Phinister	Agr (SS)	91¾	* † Chicago
Comstock, Wilbur Stockson	EE	8	* † Chicago
Conant, Alan Beardsley	Bus		* † Joliet
Conant, Pauline	SS		* Kimbundy
Conaty, John Driscoll	SS	8	* East St. Louis
Conde, Lenore Adele	LAS	65½	* † Hammond, Indiana
Condit, Forrest McCool	LawP	36½	* † Evansville, Indiana
Condit, Russell Odell	Agr	9½	* † Chicago
Condon, Frank Watrous	EE	121½	* † E. Las Vegas, New Mexico
Condon, Harold Day	Agr		* † Stillman Valley
Condon, Margaret Adele	Ed (SS)	92	* † Sheffield
Cone, Maurice Lynn	LAS	8	* † Sheridan, Wyoming
Cone, Russell Glenn	CE	41	* † Sheridan, Wyoming
Conely, Mary Emily	HELAS		* † Warrensburg
Conger, Almon Mortimer	ME (SS)	119	* † Elgin
Conger, Dale Edmunds	Jnl	32	* † Des Moines, Iowa
Conkey, Francis Irene	SS	5	* Homer
Conklin, Carol Constance	LAS	102¾	* † Urbana
Conklin, Thomas Roscoe	LAS	22	* † Aurora
Conley, James Edward	CE		* † Belvidere
Conley, Mae	HELAS	98½	* † Sheldon
Conlin, Henry Richard, Jr.	Bus		* † Arthur
Conn, Harlan Dewitt	Bus	33½	* † Champaign
Connor, John Hal	SS	114½	* † Newton
Connor, Lois Mildred	LAS	38½	* † Champaign
Conrad, Albert Melvin	Bus		* † Robinson
Conrad, Clarence Leonard	EE (SS)	32¾	* † Charleston
Conrad, Clyde Kenneth	MedP	43½	* † Nitro, West Virginia
Conrad, Emma Lorraine	Bus		* † Decatur
Conrad, John Walter	Accy	38½	* † Charleston
Conroy, Dennis Joseph Brady	Bus		* † Whiting, Indiana
Conway, Helen Virginia	SS	63½	* Peoria
Cook, Carl Frederick Martin	FOM	58	* † South Bend, Indiana
Cook, Clifford John	ME	19	* † St. Louis, Missouri
Cook, Elisabeth Flora	LAS	22	* † Roberts
Cook, Grace	LAS		* † Norris City
Cook, Howard Haydon	Bus (SS)	98½	* † Shelbyville
Cook, Morris Henry	EE	72	* † Greenup
Cook, Seymour Houghton	ChE	80	* † Rockville Centre, New York
Cooke, John Samuel	CE	8	* † St. Louis, Missouri
Cooke, Robert Howell	CE	55	* † Blairstown, New Jersey
Cooley, Lloyd Seyller	IndA	84	* † McHenry
Cooley, Lillian Grace	SS		* † Clarksville, Tennessee
Coolidge, James Henry	Bus	31½	* † Cleveland, Ohio
Cooling, Kenneth George	AE	91	* † Rockford
Coolley, Anna	Bus	72½	* † Broadlands
Coolley, John A	Agr		* † Newman
Coolley, Marion Fowler	Bus (SS)	33½	* † Danville
Cooper, Albert William	ME	34½	* † Quincy
Cooper, Eva Lena	LAS		* † Pesotum
Cooper, Fay Maxey	LAS	64½	* † Little Rock, Arkansas
Cooper, George E	SS	6½	* † Slippery Rock, Pennsylvania
Cooper, Glenn Everett	Bank	26	* † Kankakee
Cooper, Isadore Earl	Chem.	97½	* † Chicago
Cope, Harold Fleming	Jnl	99	* † Champaign
Cope, Howard Louis	Agr	24	* † Salem
Copes, Ira Otho	Agr	73½	* † Green Valley
Copley, Mary	LAS (SS)	64	* † Joliet
Copper, Earl McHarry	MedP	8	* † Mason City
Copper, Warren Archibald	Ath		* † Mason City
Corbett, Esther	HEAgr	101½	* † Toronto, Canada
Corbett, James Charles	CE	2½	* † Chicago
Corbett, Kenneth Hughes	LAS	16½	* † Champaign
Corbett, Paul Stuart	Agr		* † Pana
Corbin, Francis Lackner	ChE		* † Chicago
Corbin, Robert Merle	ChE		* † Winnebago
Corbin, William Hamilton	ME		* † Kansas City, Missouri
Corbly, Gladys	LAS	87	* † Paxton
Corcoran, Katherine Mary	LAS	106	* † Galena
Cord, Joy Sylvia	HELAS	50	* † Philo
Corey, Harry Eugene	Agr	30	* † Chicago
Corey, Raymond Sheridan	Bus	23½	* † DeKalb

Cork, Howard Heinz	AE		* † Wheaton
Cork, Marion Hazel	HELAS		* † Wheaton
Corley, Ralph Connor	MedP	45	* † Tower Hill
Corley, Warren	Jnl	8	* † Decatur
Corman, Julian	ChE		* † St. Louis, Missouri
Cornelius, Maurice Leon	MinE	40½	* † Kewanee
Cornelisen, Paul Drew	EE (SS)	72	* † Pittsburg, Kansas
Cornell, Kenneth E	Bus		* † Moline
Cornwell, Ross Eugene	ME	21½	* † Neoga
Corrie, Lester Linn	Agr	99	* † St. Francisville
Corrington, John William	Bus	22	* † Jacksonville
Cortis, Robert Percy	CE		* † Hinsdale
Corwine, Grace Evans	LAS		* † Lincoln
Cory, Helen Mary	LAS		* † Hoopston
Cory, William Robert, Jr.	SS	13	* † Rochester
Cosler, William Justo	CE	8	* † Louisville, Kentucky
Coss, Harold Thornton	CerE	35	* † Saunemin
Cossairt, Laura Grace	SS	13½	* † Urbana
Cotes, Mervin Franklin	Bus	28½	* † Peoria
Cothorn, Leland Irvin	LAS	31½	* † Pana
Cotta, Maurice La Roy	MSE	103½	* † Rockford
Cotter, Buel	CE		* † Granite City
Cottingham, Erma	HEAgr		* † Jerseyville
Cottingham, Esther Alice	LAS		* † Danville
Cottingham, Paul V	CE		* † Danville
Cotton, Frank Earl	Agr	74	* † Homer
Cottrell, Frances Bernice	LAS	32½	* † Champaign
Couchman, Alice Irene	LAS	103½	* † Sumner
Coudy, Hazel Grace	Bus		* † Granite City
Coughanour, Richard David	EE (SS)	107½	* † Dallas, Texas
Coughlan, Ruth Ann	Jnl	34	* † Kokomo, Indiana
Coughlin, John Anthony	Law P		* † Joliet
Coultas, Wilbur Horace	Agr		* † Virden
Coulter, Roscoe William Bryan	Agr	35½	* † Flat Rock
Councill, Charles Clemens	AE	45	* † Marion, Indiana
Countryman, Willard Sheaff	Bus	2	* † Dixon
Courtney, George Frederick	LAS	89	* † Urbana
Courtney, John Earl	Bus		* † Jamestown, Indiana
Cover, Olive	LAS	105½/12	* † Tunnel Hill
Cover, Sylvia	HELAS	114½	* † Tunnel Hill
Covey, Edwin Linn	Law	56½	* † Peoria
Covey, Ira Jay, Jr.	Law	18½	* † Peoria
Covington, Mary Louise	LAS		* † Havana
Cowell, Roland Adhemar	Ath	55	* † Durham, New Hampshire
Cox, Albert Harrington	EE	8	* † St. Louis, Missouri
Cox, Bernard Keith	Bus		* † Lexington, Kentucky
Cox, Edwin	LAS	8	* † LaGrange
Cox, Laurence Glenn	Agr		* † Onarga
Cox, Mary Jane	LAS sp		* † Urbana
Cox, Wayne Bresee	LAS		* † Lincoln
Coyle, Amy Margaret	LAS		* † Berwyn
Coyle, Emanuel John	ME	8	* † Galesburg
Crabb, Sally Margaret	LAS		* † Litchfield
Crabb, Warren Dysert	ChE	8	* † Fowler, Indiana
Crabtree, Fern	Bus		* † Anna
Crackel, Thelma Ruth	LAS	61	* † Champaign
Craft, John Countryman	Agr	105½	* † Rochelle
Craig, Edward Eugene	EE	44	* † Medford, Massachusetts
Craig, Gladys Isabell	LAS		* † Charleston
Craig, Palmer George	IndA	53	* † Danville
Craighead, William Henry	LAS		* † Louisville, Kentucky
Crammond, Ralph Gibson	Agr	43	* † Peoria
Crampton, Richard Sidney	LAS	21	* † Evanston
Crandall, Bert Harrison	Ed (SS)	116	* † Huntsville
Crandell, Earl Melville	Agr (SS)	96½	* † Oak Park
Crane, Henry Ludlow	Agr	26	* † Clearmont, Missouri
Crane, Martin	MinE	86½	* † Chicago
Crangle, Walter Francis	Ath (SS)	23½	* † Onarga
Cratty, Walter Bryant	Bus	42	* † Rochelle
Craver, Alva Wilfred	Agr	63	* † Harvey
Crawford, Carroll Victor	Agr		* † Danville
Crawford, Charles Edward	Voc tsp		* † Quincy
Crawford, Charles Hackney	Bus	11½	* † Harvard
Crawford, Charles Matthew	LAS	72	* † Washburn
Crawford, Ira Maxwell	FOM	20	* † Milford
Crawford, Katharine	SS	1½	* † Tokono
Crawford, Mary Ann Elizabeth	Arch		* † Hillsboro
Crawford, Nelle Florence	Mus sp	6	* † Champaign
Crawford, Philip Marion	ForC		* † Champaign
Crawshaw, Earl Harwood	Bus	48½	* † Chicago
Cray, Charles Louis	Law sp		* † Jerseyville
Crebs, John Montgomery, Jr.	Bus (SS)	94½	* † Carmi
Creighton, David Edward	Agr	100	* † Phoenix, Arizona
Cremeans, Lola Merle	HELAS (SS)	111	* † Urbana
Cremeans, Nida Edith	LAS	49	* † Urbana
Cress, Foster Lohr	Agr		* † Hillsboro

Cressey, Hubert Dean	ME	12	* † Springfield
Crew, Maurice Croushorn	ChE	62½	* † Aurora
Crews, Orville Jennings	ForC	101½	* † Sioux City, Iowa
Crickman, Chlorus William	Aggr	55	* † Clay City
Crill, Clarence Elmer	Bus	35½	* † Monroe Center
Crill, William Franklin	Aggr	57½	* † Monroe Center
Crim, Charles Harold	CE	127	* † Eslerville, Iowa
Cripe, Ruth Adeline	LAS (SS)	31½	* † Frankfort, Indiana
Criss, John Franklin	Voc vs p		* † Cora
Crissey, Joel Brigham	Bus	8	* † Oak Park
Cristal, Morris	EE	17½	* † St. Louis, Missouri
Crocker, Harold Fletcher	Bus sp		* † Pontiac
Croll, Henry Albert	EE	32½	* † Chicago
Crombie, Robert John	Jnl	40	* † Peoria
Cromer, George William	ChE	70	* † West Chicago
Cromwell, Harold Clyde	Aggr	16½	* † Monmouth
Cronwell, Bernhard Johannes	MedP	26	* † Hanover
Crooker, Winfield Durbin	ME		* † Jeffersonville, Indiana
Crooks, Charles Franklin	Ath	8	* † Dayton, Ohio
Crosby, Glen Monroe	ME	73½	* † Maywood
Cross, Hugh Ware	Laug	44½	* † Jerseyville
Cross, Lois Kathleen	LAS		* † Mt. Pulaski
Crossen, Robert Walter, Jr.	ME		* † Joliet
Crossley, Clarence Francis	ChE	35½	* † St. Louis, Missouri
Crow, Robert Neil	ChE	63	* † Carollton
Crowell, Faye	SS	24	* † Waverly
Crowell, Truman MacKenzie	LawP	34	* † Paw Paw
Crowell, Zelah Enrice	Aggr (SS)	3	* † Waverly
Crowley, John David	Voc vs p		* † Springfield
Crum, Virgil Handley	MedP		* † Pontiac
Cryder, Ray Eugene	Aggr	81	* † Morris
Culkin, Louis Thaddeus	ME	35½	* † Cossackie, New York
Cullen, Katherine Wheeler	LAS	68	* † Chicago
Cullen, Victor	RA	104½	* † Taylorville
Culp, Edith Florence	HE Aggr		* † Belhalto
Culp, Lester Brenholt	Aggr	7½	* † Bethalto
Culp, Ray A.	EE		* † Mason City
Culter, Ralph Emerson	Accy	90½	* † Gibson City
Cummings, Howard	AE		* † Jerseyville
Cummings, Ira Roberts	EE	74	* † Joliet
Cummings, Rodney Keeney	Bus	6½	* † Rockford
Cummings, William Gordon	CE	14	* † Geneva
Cunliffe, Edwin Kendall	CE		* † Detroit, Michigan
Cunnea, Joseph Patrick	CE (SS)	65	* † Chicago
Cunningham, Ervin William	CE	8	* † West Point
Cunningham, Leona Bernice	LAS sp (SS)		* † St. Joseph, Missouri
Cunningham, Walter Cheever	Bus		* † Tipton, Indiana
Cunningham, Willard Thomas	Bus	17½	* † Rossville
Cuppy, Robert Overton	Arch	31½	* † Lafayette, Indiana
Currie, Nannie	SS		* † Loda
Currier, Laurence Jenks	Bus	79	* † Aurora
Curry, Arthur Ray, A.B., 1916	Lib (SS)	8	* † Cleburne, Texas
Curtis, Arthur James	ME		* † St. Charles
Curtis, Hazel	Jnl	89½	* † Kewanee
Curtis, Lucille Grace	LAS		* † Reynolds
Curtis, Ralph Ernest	Bus		* † Indianapolis, Indiana
Curtiss, Earle Muller	LAS		* † Chicago
Curtiss, Edward Augustus	Aggr	41	* † Stockton
Cushman, Kenneth Bruce	Aggr	68	* † Yonkers, New York
Cuskaden, Myron E.	Aggr	18½	* † Cape Girardeau, Missouri
Custer, John Howard	Bus (SS)	98	* † Chicago
Cutler, George Clinton	Aggr	12	* † Carthage
Cutler, Lloyd Elwell	Aggr	105	* † Urbana
Cutler, Sara Agnes	LAS		* † Urbana
Cutshall, Paul Webster	RA	5½	* † Brazil, Indiana
Dack, Gail Monroe	Aggr	27½	* † Elgin
Dahl, Merle Swanson	Aggr		* † Walnut
Dahlquist, Ruby Christine	LAS	62	* † Neponset
Dahn, Frances Cecelia	Bus	35	* † Chicago
Dahn, Marie Florence	LAS		* † Chicago
Dailey, Arthur Aloysius	Jnl	101	* † Houston, Texas
Dalbey, Mrs. Mary Bennett	SS		* † Cedar Rapids, Iowa
Dale, Charles Sherman	Ed (SS)	26	* † Paxton
Dalrymple, Martin Mann	Bus	5½	* † Chrisman
Daly, Harold Merland	LAS		* † Armington
Damisch, Herbert Raymond	Aggr	2½	* † Pingree Grove
Damron, John Harold	Aggr	86½	* † Macomb
Dana, Everett Barnum	Bus	2½	* † Kewanee
Dancy, James Russell	AE	4	* † Oklahoma City, Oklahoma
Danforth, Harlan Kingsbury	Aggr		* † Washington
Dangremond, Carleton Elmer	Bus	32	* † Chicago
Dangremond, Le Roy Marion Garritt	CE	34½	* † Chicago
Danhoff, Le Roy Edward	LAS		* † Morrison
Daniels, Lucy Helen	LAS	40	* † Chicago
Daniels, Philip Maurice	Bus		* † Chicago
Daniels, Rupert Samuel	ChE	34	* † Harvey

Daniels, Stewart Derry	Bus	57	* † Jerseyville
Danielson, Eunice Anetta Ruth	HEAgr	28	* † Leland
Danielson, Marvin August	AE		* † LaPorte, Indiana
Danneberger, Charles Obourn	SS	16½	* † Shelbyville
Dansby, Ora	SS	9	* † Fort Smith, Arkansas
Dappert, Anselmo Fulton	CE	111	* † Taylorville
Dappert, Lucy Catherine	LAS		* † Taylorville
D'Arcy, Jennie Myrtle	LAS sp		* † Wilmette
Darham, Anna	LAS sp		* † Carthage
Darley, Samuel Dawson	Agr	55½	* † Jacksonsville
Darnall, Andrew Jackson	Bus		* † Danville
Darnall, Warren Verne	Bank	76½	* † Oak Park
Dart, Helen Elwilda	Mus	63	* † Peoria
Dart, William John, Jr.	Accy	22	* † Chicago
Dauber, Addis Lionel	Agr	29½	* † Chicago
Daugherty, Clayton Forrest	Jnl	11½	* † Champaign
Davenport, John Porter	Bus	8	* † Wheaton
Davenport, Wayne Thomas	Bus		* † Crawfordsville, Indiana
Davidson, Bernard Eugene	CE	105	* † Keokuk, Iowa
Davidson, Dorothy Daisy	Bus		* † Marshall
Davidson, Fred Alexander	Agr	34	* † St. Louis, Missouri
Davidson, Gaylord Stillman	Bus	109	* † Springfield
Davidson, Genevieve Alice	Chem	98	* † Chicago
Davidson, John Dempster	EE		* † Springfield
Davidson, Theodore Andrews	ChE		* † Chicago
Davis, Andrew Courtney	LAS		* † St. Louis, Missouri
Davis, Beryl	Bus	65	* † Tampico
Davis, Catalina	LAS	29	* † Philo
Davis, Charles Brewer	Jnl (SS)	116½	* † Champaign
Davis, Charles Jesse	ME	81½	* † Chicago
Davis, Chester Rudolph	Law		* † St. Charles
Davis, Clare Rudolph	SS	51½	* † Donnellson
Davis, Darrell Rozel	Bus	30½	* † Taylorville
Davis, Donald Byer	Agr	8	* † Riverside
Davis, Dorothy Belle	LAS	22½	* † Glencoe
Davis, Earl William	Bus		* † Pueblo, Colorado
Davis, Evan Merrill	Bus	22½	* † Urbana
Davis, Frances Margaret	LAS (SS)	90½	* † Urbana
Davis, Georgia Evelyn	LAS		* † Tuscola
Davis, George Andrew	LawP	14	* † Hazel Crest
Davis, Grace	Mus		* † Bowen
Davis, Harold Baltzell	Arch	34½	* † Champaign
Davis, Harold McDonald	Ath	73	* † Mooreland, Indiana
Davis, Harold Sterling	EE		* † Springfield
Davis, Herbert Spencer	LAS	74½	* † Louisville
Davis, Helen Theresa	LAS sp	18½	* † Chicago
Davis, Herschel	C & L		* † Clinton, Indiana
Davis, Irvin	MedP	32	* † Belleville
Davis, John D	Bus sp (SS)	15	* † Newton
Davis, Kenneth Isaac	Accy	101½	* † Tampico
Davis, Lester Roy	Agr		* † Christopher
Davis, Loxa Edna, A.B., 1919	SS	132½	* † Charleston
Davis, Mary Lucile	HELAS	64½	* † St. Louis, Missouri
Davis, Mildred Irene	LAS		* † Pesotum
Davis, Ora William	Agr		* † Hennepin
Davis, Richard Wilbur	Bus	1	* † Chicago
Davis, Robert Holcomb	Chem (SS)	42½	* † Philadelphia, Pennsylvania
Davis, Russell Stanley	EE		* † Bloomington
Davis, Veronica	Mus	96½	* † Bowen
Davis, Waldo Emerson	EE	54	* † Rapatee
Davis, William John Nixon, Jr.	MedP		* † Chicago
Davison, Eugene L	Agr	14½	* † Springfield
Davison, Harold Jerome	AE	32½	* † Canton, Ohio
Davison, Homer Reese	Agr	52	* † Springfield
Davison, John Earl	Agr	2½	* † Carthage
Davison, Robert Mamie	Jnl	30	* † Springfield
Dawson, Eleanor Helene	HEAgr		* † Champaign
Dawson, Henry Toward	Bus sp	8	* † Champaign
Dawson, Louis Edward	ChE	124	* † Jacksonville
Dawson, Owen Lafayette	Agr	104½	* † Orland
Dawson, Robert Harvey	EE (SS)	111½	* † Monticello
Day, Anna Edith	SS		* † Jacksonville
Day, Esther Victoria	LAS	63½	* † Bement
Day, Howard Bloodgood	EE	57½	* † Westfield, New Jersey
Day, Wilber Franklin	Chem	107	* † Peoria
Dayton, Wayland Wilbur	Agr	116½	* † West Chicago
Dean, Harold Frederick	ME	34	* † Mendota
Dean, John Russell	SS	6½	* † Steelville, Missouri
Decker, John Ernest Everingham	Bus		* † Oak Park
Decker, Plynnon Monroe	Agr	81	* † Columbus, Ohio
Decker, Ralph Talbot	ChE	91	* † Augusta
Decker, William Erdmer	MinE		* † Chicago
Deedman, Philip Thornton	EE	34½	* † Kansas City, Missouri
Deeming, William Seaber	Bank	68½	* † Sterling
Defenbaugh, Charles Ronald	Bank		* † Reading
De Groot, Walter Charles	Agr (SS)	115½	* † Washington, D. C.

De Groot, William Benton	<i>Agr</i> (SS)	61	† Washington, D. C.
Dehr, William Bohlander	<i>EE</i>	34	† Hinsdale
De Jarnette, Reven Sims	<i>ForC</i>	4	† Parsons, Kansas
Delaney, Harold Wayne	<i>Bus</i>		† Champaign
Delaney, John Russell	<i>Ath</i>		† Indianapolis
Dell, Dorothy	<i>HELAS</i>	100	† St. Louis, Missouri
Delp, Joseph Jacob	<i>Accy</i>	8½	† Lanark
Del Plaine, Parker Haywood	<i>Chem</i>		† Cambridge, Massachusetts
Delson, Ezra	<i>C &amp; L</i>		† Chicago
Demaree, Georgia	<i>SS</i>	1	† Simpsonville, Kentucky
Dempster, Margaret Lorene, A.B., 1918	<i>Lib</i>		† Geneva, Nebraska
Denby, Helen Elizabeth	<i>HELAS</i>	62	† Carlinville
Dencer, Frederick Arthur	<i>MinE</i>	27½	† Chicago
Denick, Milo Frank	<i>ME</i>	121	† Lockport
Denison, Irving Alson	<i>Agr</i>	100	† Washington, D. C.
Denison, Sidney Alexander	<i>SS</i>	41	† Urbana
Dennett, Dorothy	<i>Jnl</i>		† Wilmette
Dennett, Helen	<i>Bus</i>		† Wilmette
Dennett, Kenneth	<i>Agr</i> (SS)	31½	† Chicago
Dennis, Katherine McClelland	<i>HELAS</i>		† Urbana
Dennis, Lois Esther	<i>Bus</i>	29½	† Homer
Denny, Frank Morey	<i>Bus</i>	8	† Vandalia
Denny, Maurine Louise	<i>LAS</i>		† Vandalia
Denton, Mary Lou	<i>Chem</i>	73	† Pittsburg, Pennsylvania
Denyes, Lawrence Owens	<i>LAS</i>		† Evanson
Depler, John Clarence	<i>ForC</i>	56	† Lewiston
Dermond, Philip Chase	<i>ME</i>	10	† Anderson, Indiana
D'Errico, George Stanley	<i>SS</i>	8	† Cleveland, Ohio
Derrough, Gertrude Jeanette	<i>Jnl</i>		† Champaign
Derrough, Ralston Fletcher	<i>Arch</i>	28	† Champaign
De Smet, Edward	<i>Voc esp</i>		† Rock Island
Detweiler, Earl Kratz	<i>EE</i>	32	† Sterling
Detweiler, Roy Kratz	<i>Chem</i>	8	† Sterling
Detwiler, George Farran	<i>Bus</i>	45½	† Aledo
Deuss, Hugo Otto	<i>MedP</i>	44	† Chicago
Devere, Florence Edith	<i>Bus</i>		† Kankakee
Devlin, Julien Walter	<i>Agr</i>	99½	† Chicago
De Voe, Earl Lawrence	<i>Bus</i>	23½	† Freeport
DeWitt, Charles William	<i>Agr</i>	10½	† Downers Grove
De Witt, Ruth Houlton	<i>LAS</i>		† Downers Grove
Dhein, Ray Emerson	<i>AE</i>	33½	† Dayton, Ohio
Dice, Clifford Orville	<i>SS</i>	8½	† Covington, Indiana
Dice, William Rush	<i>Bus</i>	67½	† Charleston
Dick, Frank Joseph	<i>LAS</i> (SS)	94½	† Quincy
Dickerson, Guy Leon	<i>SS</i>	10½	† Clinton
Dickey, Margie Elenora	<i>LAS</i>		† Champaign
Dickinson, Frank Greene	<i>MSE</i>	60½	† Griggsville
Dickinson, Robert Ellis	<i>Bus</i>	7½	† Little Rock, Arkansas
Dickinson, Stuart Richard	<i>MinE</i>		† Chicago
Dickler, Edward Carl	<i>ChE</i>	39½	† Dwight
Dicks, Forrest Algerton	<i>LAS</i>		† Broadlands
Dickson, Gerald Edgar	<i>LAS</i>		† Hampshire
Dickson, Lawrence Evans	<i>Law</i>	108	† Chicago
Diefenderfer, George Woodruff	<i>Agr</i>	28	† Chicago
Diefenbacher, Martha Mitchell	<i>SS</i>	27½	† Havana
Diehl, Harold Allan	<i>Bus</i>	58	† Chicago
Diekman, Harold Irwin	<i>Agr</i>	30½	† Dolton
Dies, Ellen Livingood	<i>LAS sp</i>		† Memphis, Tennessee
Diesel, Malvern Louis	<i>LAS</i>	34	† St. Louis, Missouri
Diesel, Wilfred August	<i>RA</i> (SS)	80½	† Chicago
Dietrich, Carl Bernhardt	<i>IndA</i> (SS)	64½	† St. Louis, Missouri
Dietrich, Ruth Josephine	<i>LAS</i>	32½	† Bremen, Indiana
Dietrich, Sterling Miller	<i>Bus</i>	66½	† Bremen, Indiana
Dietz, Marie Alena	<i>LAS</i>	97½	† Burlington
Diggin, Elizabeth Cecilia	<i>SS</i>	6	† Nauvoo
Dillavou, Ora Dale	<i>Bus</i>	22	† Champaign
Dillie, Kathryn	<i>SS</i>	8½	† Granite City
Dilling, Lela Lucile	<i>LAS</i>	91½	† Urbana
Dillon, Chester Charles, A.B., 1913	<i>SS</i>	154	† Mackinaw
Dillon, Edward Leland, B.S., 1910	<i>Agr irr</i>	155	† Urbana
Dillon, John Michael	<i>CE</i>		† Chicago
Dillon, Pauline Louise	<i>LAS sp</i>		† Chicago
Dillon, Teresita	<i>LAS</i>	39½	† Danville
Dinsmore, Webb Onslow	<i>Bus</i>	8	† Chrisman
Dippell, Carl Bush	<i>AE</i>	121	† Freeport
Dippell, Lawrence Vernon	<i>CerE</i>	8	† Freeport
Dittmann, Frances Emaline	<i>Agr</i>	32½	† Chicago
Dixon, Alfred Leonard	<i>LAS</i>		† Victoria
Dixon, Don	<i>EE ssp</i>		† Fairbury
Dixon, Edgar Ogle	<i>SS</i>	132½	† Chicago
Dixon, Harry Louis	<i>Flor</i>	60½	† West Somerville, Massachusetts
Dixon, Helen	<i>SS</i>		† Hot Springs, Arkansas
Dixon, Hubert Theodore	<i>EE</i>		† Kewanee
Dixon, Mary Louise	<i>LAS</i>	104½	† Chicago
Dixon, Thomas Carl	<i>Accy</i>	87½	† Vincennes, Indiana
Doak, Emily Elizabeth	<i>LAS</i>		† Paris



Doak, George William	Agr	10	† Robinson
Doane, Floyd Telford	LAS		† Peru, Nebraska
Dobbins, Ray Franklin	LawP		† Champaign
Dobbins, Samuel Orr Holliday	MinE		† St. Louis, Missouri
Dobson, George Curran	Bus	26½	† Elburn
Dobson, George Young	Bus		† Moweaqua
Dobson, Ray Robinson	Bus	8	† Milmine
Dobyns, Marie Jewell	LAS	60½	† Champaign
Dodd, Mary McLean	LAS sp		† Aurora
Dodd, William J.	Agr	4	† Hume
Dodds, Donald Chambers	Bus	73	† Champaign
Dodge, Harrison Monroe	Bus	28½	† Bloomington
Dodge, Ray	Agr sp	8	† Sheller
Dodson, James Franklin	SS	13½	† Mahomet
Dodsworth, Jesse Willard	Agr	33	† Berkeley, California
Doepel, Robert Francis	ME	81	† Mattoon
Doherty, Margaret Isabella, A.B., 1917	Lib	3	† Urbana
Doisy, Roberta Josephine	Jnl	72½	† Champaign
Dolby, Vernon A.	AE	73½	† Elgin
Dolch, Mrs. Marguerite Pierce	Mus		† Urbana
Dollahan, Leslie Warren	Bus	29½	† Chicago
Dolle, Frances Theresa	LAS		† Chicago
Dolly, John Waldron	LawP		† Rock Island
Dolph, Arthur H.	SS	78½	† Urbana
Donahue, William Dale	LAS	38	† South Bend, Indiana
Donaldson, Robert Jennings	EE	73½	† Grayville
Donlevy, Fred Irwin	Chem	24½	† Maywood
Donley, Walter Wellington, Jr.	Law	51½	† Peoria
Donlin, Logan Leon	CE	32½	† Chicago
Donnan, Dallas Leo	Bus	8	† Idlewood, Florida
Donnelly, Webster Colby	EE	8	† Brooklyn, New York
Donohoe, Dorothy Ann	LAS (SS)	104½	† Macomb
Donohoe, Philip Henry	EE	99½	† Macomb
Donohue, James Arthur	CE	31	† Waukegan
Doolen, Clem Daniel	REE	117	† Bondville
Doolen, Clyde Ben	Agr sp		† Bondville
Doolen, Deane Elmo	MedP (SS)	28	† Bondville
Dooley, Helen Elizabeth	LAS (SS)	106	† Little Rock, Arkansas
Doran, Millard Edward	C & L	47½	† East St. Louis
Doran, Ruth	LAS	60	† Hammond
Dore, John Patrick	Agr		† Hennepin
Doretta, Peter Joseph	MedP	68	† Chicago
Dorsett, Eleanor Hedgecock	LAS	110½	† Augusta
Dorsett, Walter Harper	Agr	80½	† Augusta
Dorsey, Albert Howell	Bus	19	† Hillsboro
Dorsey, Asenath Helen	Bus		† Fort Dodge, Iowa
Dorullis, Bertha Marie	LAS	97½	† Lenzburg
Dory, Albert Joseph Lewis	ME	18	† Warsaw
Doss, Paul Christian, B.S., 1919	SS	132	† Philo
Doty, Elmer Wilbur	Voc sp		† Bone Gap
Doty, Esther Woodson	Accy	60	† Charleston
Doty, Henry Fairchild	Bus	102½	† Highland Park
Doubet, Earl Wesley	Ath		† Peoria
Doubet, Henry	ChE	135	† Peoria
Doud, Oscar Leo	Bank	32	† Chatsworth
Dougherty, Edwin Wallace	Agr	66	† Monmouth
Dougherty, Floyd Clarence	Ath	8	† Michigan City, Indiana
Dougherty, John Francis	Law sp		† Chenoa
Douglas, Bonnie June	Mus		† Urbana
Douglas, Raymond Greene	LAS	28½	† Albion
Douglass, Binette	Jnl	31	† Chicago
Douglass, Paul Whittier	CE		† Urbana
Douglass, Thomas Jay	Agr	29	† Balchtown
Dowd, John Matheny	MedP	100½	† Fisher
Dowell, Clark Warner	Agr	29½	† Pana
Dowell, Otis Francis	EE		† Port Richmond, New York
Dowell, Ralph Stanley	Bus (SS)	39½	† Bloomington
Downey, Henry Patrick	CE		† Hammond, Indiana
Downey, Lyle Wayne	CE	60	† Decatur
Downing, Fred Thomas	ME		† Portland, Oregon
Downing, Helen Rebecca	LAS	103	† Bowen
Downs, Charles McCabe	MedP	24	† Danville
Downs, Hedwig Veronica	LAS		† Chicago
Doyel, Lorenzo Mullery	Bus		† Greenfield
Doyle, Edgar Lee	Bus	16½	† Raymond
Doyle, Frank Butler	EE	104	† Raymond
Doyle, Katharine Adele	SS	4	† Clinton
Doyle, Marie	LAS	8	† Champaign
Drake, Carlton St. Clair	Bus	49	† Springfield
Drake, James Crawford	Bus	28	† Memphis, Missouri
Drake, Milton John	Chem ssp		† Chicago
Drake, Richard Carvel	ChE	5	† Chicago
Drake, Robert Joseph	Bus	74½	† Chicago
Dralle, Ruth Clara	LAS	71½	† Champaign
Draper, Florence Gladys	Bus	34	† Divernon
Draper, Ralph Waldo	LAS	30	† Danville

Draper, William Alexander	MedP		• † Clinton
Drees, Frank Joseph	Agr		• † Downers Grove
Dreier, Gladys Marie	LAS		• † Havana
Dreman, Henry Kenneth	LAS		• † Princeton
Drenk, Charles Russell	Ath sp		• † Elkhart, Indiana
Drennan, Benjamin Homer	Agr		• † Auburn
Drevno, Hymen Daniel	Bus	29½	• † Chicago
Drew, David Dudley	ME	32	• † Albany, New York
Drew, Leslie Arthur	EE	80	• † Chicago
Drewe, Fred L	Accy		• † Sycamore
Drews, Hazel Agnes	HELAS		• † St. Louis, Missouri
Dreyfus, Milton	Bus	38	• † Fisher
Dreyfus, Monroe S	Bus	32	• † Fisher
Dreyfus, Morris Edward	ChE	109½	• † Kansas City, Missouri
Dreyfus, Stanley S	Bus	101½	• † Fisher
Drielsma, Jonas Arthur	Arch		• † Chicago
Driver, Damon Wilbur	Agr	77	• † Carrollton
Drobisch, Sophia Mary	SS	4	• † Decatur
Drom, Margaret Catherine	LAS		• † Antioch
Drummet, Arthur William	Agr	110	• † Longpoint
Drury, Robert Johnson	LAS	9	• † Chicago
Drysdale, Robert Alexander	Jnl (SS)	96	• † Chicago
Du Bois, Granville Chase	LAS	8	• † Eldorado
Du Bois, Lenore	Mus (SS)	109	• † Roberts
Du Bois, Louis Jury	ME	28½	• † Eldorado
Du Bois, Martha Harriet, A.B., 1919	SS	153½	• † Shelby, Ohio
Du Chemin, Robert Harold	CE (SS)	79½	• † Maplewood, Missouri
Duckworth, Everett Hines	Agr	8	• † Martinsville, Indiana
Dudley, Mary Eloise	LAS		• † Springfield
Dueringer, Walter Edward	ME	110½	• † Elgin
Duffie, Paul Michael	Bus	52	• † Sterling
Dunbar, Glenn	Agr	106	• † Taylorville
Dunbar, James Loualvin	SS	14	• † Allamont
Duncan, Chesney Reed	Arch	8	• † Kingman, Indiana
Duncan, Herman Oscar	Agr sp		• † Dix
Duncan, John William	Agr		• † Ursa
Duncan, Neal	Agr	36½	• † Mt. Carroll
Duncan, Paul Bernard	Bus		• † Rantoul
Duncan, William Joseph	Bus		• † Bloomington
Dungan, John Homer	ME	76½	• † Brimfield
Dunlap, Collett Noble	EE		• † Clinton, Indiana
Dunlap, David Dewey	ChE	58½	• † Peoria
Dunlap, Harold Pyatt	Bus	19	• † Jacksonville
Dunlap, Lloyd Elmon	Agr sp		• † Toulon
Dunlop, Edmund Decker	Agr	29½	• † Mason City, Iowa
Dunlop, Willard Lincoln	FOM	8	• † Martinsville, Indiana
Dunn, Georgiena Evelyn	HELAS	103½	• † Columbus, Ohio
Dunn, Roy George	LAS	2½	• † Hillsboro
Dunning, Charles Mather	IndA ssp		• † Oak Park
Dunning, Sanford Frank	EE		• † Dundee
Dunphy, Clifford Gordon	Bus (SS)	109	• † Jacksonville, Florida
Dunseth, Clara Forbes	Jnl (SS)	68½	• † Urbana
Dunseth, Ruth Irene	HELAS	59	• † Waverly
Duntley, Ruth Marian	LAS	85½	• † Bushnell
Durand, James M	SS		• † Coffee
Durant, Philip Samuel	CE	8	• † Wheaton
Durham, Arthur Burnam	ME (SS)	36	• † Kenilworth
Durham, Harold Winfred	ForC	28	• † Genoa
Durham, Morris David	LAS	47½	• † Bement
Durst, Stanley Millard	EE	33½	• † West Frankfort
Dusan, Roy James	Bus		• † Homer
Dusenberry, Paul Brouneller	CE	42	• † Henry
Duskey, Peter James	Bus	25½	• † Chicago
Dutler, Henry Christian	CE	8	• † Highland
Dutton, Robert David	Law		• † Topeka, Kansas
Du Vall, Amelia Ruth	HELAS	28	• † Urbana
Du Vall, Kenneth Keith	Bank	34	• † Decatur
Duvigneand, Vincent Reginald	ChE	30	• † Chicago
Dux, Herbert Elmer	CE	82	• † Indianapolis, Indiana
Dvorak, Joseph, Jr.	Arch	124	• † Chicago
Dvorak, Raymond Francis	Bus	31½	• † Algonquin
Dvoretzky, Jack Joseph	ME	38	• † Chicago
Dvorin, Jacob	Agr	36	• † Bayonne, New Jersey
Dyar, Walter Salem	Agr	65½	• † Roanoke
Dye, Charles Taylor, Jr.	Bus		• † Lafayette, Indiana
Dye, George Russell	Bus		• † Wolcott, Indiana
Dye, Walter Church	CE		• † Danville
Dyer, George Griffith	ME		• † Joliet
Dykeman, Audrey	LAS	92½	• † Sreator
Dymock, Alfred William	CE	10	• † Wichita, Kansas
Dyrenforth, Carroll	LAS	39	• † Oak Park
Dysart, Wilson William	Bus	2	• † Dixon
Dyson, Edwin Arthur	Bus	68	• † Rushville
Dyson, Everett Mahlon	Bus	27½	• † Chicago
Dystrup, Ellen Grace	HELAS		• † Lemont
Eads, Margaret Jane	SS	8	• † Arthur

Eagle, Isaac Orval	Chem	8	† Chicago
Earl, Arthur Marshall	Agr <sup>1</sup>		† Nora
Earl, Mabel Garnet	LAS		† Champaign
Eastbert, Clifford Luther	AE	4	† Davenport, Iowa
Easter, Don Orin	Bus	8	† Brazil, Indiana
Eastman, Albert Reyner	AE	31½	† Rockford
Eaton, Colman	AE	32	† Rockford
Eaton, Donald Mack	Law	18½	† Stockton
Eaton, Lester Maurice	CE	4½	† Duquoin
Eaton, Ralph Melvin	Law (SS)		† Mt. Carroll
Eaton, Ruth	LAS	100½	† Quincy
Eaton, William Low, Jr.	LawP (SS)	39½	† Rockford
Eberhardt, Herman Luther	Agr	11½	† Dundas
Ebersole, Robert Joseph	MedP	2½	† Monmouth
Eberspacher, George Henry	Bus	61½	† Pana
Ebert, George Charles	ChE	28½	† Quincy
Ebi, Kenneth Ade	ME	21	† Moline
Ebner, Emil Emanuel, Jr.	EE		† Aichison, Kansas
Echenique, Guilherme, Jr.	Agr	6½	† Pelotas, Brazil
Eckhardt, Roland Oscar	Arch	64	† Sheboygan, Wisconsin
Eckart, Harold Crocker	MinE	75½	† Bloomington
Eckert, Emma Marie	SS		† Coshocton, Ohio
Eckles, Effie Aurette	HELAS		† Camp Point
Eckstein, Henry Emiel	Voc vs p		† Doniphan, Missouri
Eddins, Robert Earle	EE	18	† Tuscaloosa, Alabama
Eddy, Mary Josephine	LAS	96	† Shelbyville
Edelson, Pearl	ForC	11½	† Chicago
Eden, Royal Krebs	CE		† Champaign
Ederer, Eugene August	IndA		† Chicago
Ederer, Lothar Alfonso	IndA	72½	† Chicago
Edgar, Paul Thomas	Agr		† Arcola
Edie, Burl Albert	Law	52	† Monticello
Edie, Willis Ray	Agr	22	† Monticello
Edman, Victor Raymond	LAS	8	† Chicago Heights,
Edmonds, Robert Harold Gray	ME		† Olympia, Washington
Edwards, Estelle Emma	LAS	32½	† Centralia
Edwards, Helen Anne	LAS		† Chicago
Edwards, Howard Milton	SS	73	† Lee
Edwards, James Beresford, Jr.	Bus	97½	† Grand Rapids, Michigan
Edwards, Lester Crews	Agr	33½	† Ashland
Edwards, Mrs. Lucile Woodward	LAS sp		† Urbana
Edwards, Marshall Henry	LawP	32	† Jerseyville
Edwards, Mrs. Myrtle Sassman	Mus	65	† Danville
Edwards, Richard Vernon	Bus	8	† Springfield
Edwards, Robert William	MedP	18	† Waukegan
Edwards, Terry Warren	ME	94	† Jerseyville
Edwards, William Herbert	CE	103½	† Chicago
Egan, Mildred Alice	LAS	21½	† Quincy
Eggeman, Charles Jacob	FOM	34	† St. Louis, Missouri
Eggerding, Theodore Henry	Agr sp		† Evansville
Ehle, Josephine Minnie	ME	4	† Indianapolis, Indiana
Ehrhardt, Oliver Earl	MedP	62½	† Beardstown
Ehrhart, Everett Harold	Bus		† Decatur
Ehrlich, Julie Davide	Mus (SS)	30½	† Urbana
Eichelman, Burr Simmons	Agr	35	† Downers Grove
Eichenberger, Edward	LAS	8	† Berne, Indiana
Eichenberger, Walter Gerster	EE		† Hannibal, Missouri
Eicher, Eugenia Barbara	LAS		† Belleville
Eichler, Sidney Joseph	Bus		† Dixon
Eidson, George Herbert	Bus	2	† Chicago
Eikenberry, Amos R	Agr	15½	† LaPlace
Einbecker, William Francis, B.S., 1919	SS	142½	† Chicago
Einhorn, Ben	EE		† Chicago
Eisberg, Jacob Leon	EE		† Kansas City, Missouri
Eisfeld, Emanuel Miller	Bus		† Burlington, Iowa
Eisner, Katherine	Mus	63½	† Champaign
Eisner, Theodore Frank	Bus (SS)	68½	† Chicago
Ekblaw, George Elbert	LAS	17	† Rantoul
Ekblaw, Mrs. Augusta Krieger, A.B., A.M., 1910, 1917	LAS irr		† Urbana
Elden, Clarence Arthur	Chem	8	† Buffalo, New York
E'der, Albert Lawrence	LAS		† Urbana
Elder, Velda, Rosalyn	LAS		† Lexington
Eldridge, Bertram Neil	Bus	32½	† Lacon
Eldridge, Ferne Edmond	HELAS	25½	† Lacon
Eldridge, Leah Estene	HELAS	96½	† Wilmette
Eldridge, Lloyd Earl	Bus	8	† Wilmette
Elford, Joseph	EE	2	† Chicago
Elg, Erich George	REE	100½	† Green Bay, Wisconsin
Ellett, Durwood X	AE	2½	† Danville
Ellett, Roy	Voc vs p		† Armstrong
Ellington, Alvin Matthews, A.B., 1919	SS	130½	† Buffalo
Elliott, Arthur Roland	SS	116	† Streator
Elliott, Estes Eugene	AE	34½	† Kansas City, Missouri
Elliott, Roland Kenneth	Agr		† Casey
Ellis, Arthur Grover	AE	49½	† Oklahoma City, Oklahoma

Ellis, Charles Lyman, A.B., 1910	AE irr (SS)	179½	* † Urbana
Ellis, Harry David	MedP	8	* † Springfield
Ellis, Mary Jane	HELAS	53	* † White Hall
Ellis, Maurice Jeffries	MedP		* † Altamont
Ellis, Nannie Isabel	SS	11	* † Windsor
Ellis, Olive E., A.B., 1919	SS	130½	* † Champaign
Ellis, Raymond Dana	LAS	12	* † Altamont
Elman, Samuel Maurice	EE	49½	* † Chicago
Elzas, Lloyd L	CE	2	* † Chicago
Emch, Walter	CE	132	* † Urbana
Emery, Robert Simpson	Bus	99½	* † Chicago
Emig, Esther Maybelle	LAS (SS)	26½	* † Columbus, Indiana
Eminger, Mabel, A.B., 1919	SS	134½	* † Gibson City
Emmerling, Carl James	MedP	5½	* † Pekin
Emory, Alan	Bus		* † Oak Park
Emrich, William Wayne	Agr	28	* † Casey
Ems, Clarence	Agr	56	* † St. Joseph
Ems, William Wallace	Bus	19½	* † St. Joseph
Enderly, Herbert Byron	Agr		* † Fairbury
Endres, Albert Adam	Agr	10	* † Canton
Endres, Arthur Fred	LAS		* † Canton
Engberg, Felix John	Bus		* † Chicago
Engelbrecht, Herman Samuel	Bus	35½	* † Libertyville
Engelbrecht, Howard Frederick	Accy	8	* † Elgin
Engelhardt, Muriel Alice	LAS		* † Chicago
Engelhardt, Henry Adolph	Bus	32	* † Elkhart, Indiana
Engelhardt, Lora May	HELAS	108½	* † Harvard
Engelhardt, Veva Bernice	HEAgr		* † Spencer, Iowa
Engelhart, Max Dissette	ChE	2	* † Glencoe
Engelland, Mynetta Mary Margaret	HELAS	101½	* † Grant Park
England, Bess Louise	SS	5	* † Havana
England, Fae Erma	LAS		* † Havana
England, Glenn Lewis	EE	128½	* † Havana
England, Thomas Harold	LawP	28½	* † Olney
Engle, Jeannette Morrison, A.B., 1915; A.M., 1916	SS		* † Urbana
Engle, Laurence Washington	Agr (SS)	60	* † Urbana
English, Elmer David	Bus	24	* † St. Louis, Missouri
English, Frank James	ME	92½	* † Springfield
English, George Washington, Jr.	Bus (SS)	61½	* † Urbana
English, Thomas Farris	Bus	8	* † Urbana
English, Virgil Carroll	MedP		* † Urbana
Ennis, Esther	LAS		* † Mason City
Entz, Arthur David	EE	9½	* † Wichita, Kansas
Enyart, Melville York	ChE	86½	* † Chicago
Enyart, William Ralph	ME		* † Connersville, Indiana
Eppel, Clayton Benjamin	Ath ssp	8	* † Woodstock
Eppinger, Marie Anna	LAS (SS)	59½	* † Quincy
Erb, Donald Milton	Bus	32	* † Urbana
Erickson, Aletta Louise	Jnl		* † Chicago
Erickson, Adrain Edson	Bus	116	* † Arthur, Iowa
Erickson, Erick Gustaf	ME	36	* † Moline
Erickson, Esther Marie	HEAgr	103½	* † DeKalb
Ericson, Walter Milfred	AE	8	* † Huron, South Dakota
Ericsson, Deway Arthur David	AE	48	* † Chicago
Ericsson, Hazel Harriett	Jnl	59½	* † Chicago
Erlandson, Hazel Ann	Arch		* † Miller, Indiana
Ernest, Edward Frank	Bus	23	* † Sycamore
Ernest, Helen Orpha	Mus (SS)	122	* † Urbana
Ernest, Nellie Edith	LAS	55½	* † Urbana
Ernest, Ruth, A.B., 1915	SS	141½	* † Urbana
Errant, Florence Morey	HELAS		* † Urbana
Errant, James Whitcomb	Agr sp	8	* † Urbana
Ersline, Carrie Marguerite	SS	5	* † Oak Park
Ervin, Glen	ME		* † Sporta
Erwin, Leslie Douglas	SS	12½	* † Medora
Erwin, Lewis Dewey	ME	24	* † Macomb
Esheby, Alfred Carl	Bus	13	* † Buffalo, New York
Eskew, Clarence Eugene	Bus	8	* † Benton
Eskridge, Lawrence Edwin	LAS		* † Lewistown
Eslow, Charles Kenneth	MedP		* † Chicago
Esmond, Dale Brown	Agr	8	* † Ottawa
Espy, Murry Greenleaf	FOM	94¾	* † Logansport, Indiana
Espy, Ralph Miller	LAS		* † Palestine
Esser, Howard Alexander	Bus (SS)	25	* † Aurora
Esslinger, Esther Lillian	LAS (SS)	96	* † Rushville
Esslinger, Lois Sarah	LAS		* † Rushville
Esslinger, Paul Henry	LAS	32½	* † Rushville
Etheridge, Frances Dorothy Locke	LAS		* † Vincennes, Indiana
Etherton, Lonnie Ellsworth	MedP	8	* † Carbondale
Ets Hokin, Covert	LawP		* † Chicago
Ets Hokin, Oscar	Bus		* † Kewanee
Evans, Arthur Francis	Bus	8	* † Maywood
Evans, Eugene Allen	EE	24	* † Aurora
Evans, George Gerald	Agr	22½	* † Chicago
Evans, Helen	HELAS		* † Wilmette

Evans, Henry Bowman	<i>Bus</i>		• † Roscoe, Iowa
Evans, Henry Herbert	<i>Bus</i>	30	• † Aurora
Evans, Hester Philena	<i>SS</i>	24½	• † Urbana
Evans, John Harwood	<i>Agr</i>	2½	• † Bloomington
Evans, Maurice Willard	<i>Bus</i>	83	• † Mattoon
Evans, Philip Gardiner	<i>Agr</i>		• † Elizabeth, New Jersey
Evans, Robert Barclay	<i>Bus</i>	56½	• † Aurora
Evans, Walter Chew	<i>Bus</i>	29½	• † Chicago
Evans, Wayland Hoyt	<i>Bus</i>		• † Riverside
Evans, William Harold	<i>Jnl</i>	50	• † South Bend, Indiana
Eveland, Harmon Edwin	<i>IndA (SS)</i>	79½	• † Moccasin, Montana
Everett, Henry Armstrong	<i>Bus sp</i>		• † Kenilworth
Eversole, Lenore Lee	<i>LAS (SS)</i>	35½	• † Champaign
Eversole, Selma Anna	<i>LAS</i>	47½	• † Charleston
Ewing, Herbert Nathaniel	<i>Bus</i>	59½	• † McLean
Eycleshymer, Dorothy Adele	<i>Bus</i>	34½	• † Niles, Michigan
Eyman, Nepha Mae	<i>LAS</i>		• † Argenta
Fabry, Alex	<i>ChE</i>	69½	• † Chicago
Fagalry, William James	<i>EE</i>		• † Lawrenceburg, Indiana
Fagan, Arthur S	<i>Agr</i>	8	• † St. Charles
Fagerburg, Rudolph Edward	<i>ME</i>	23½	• † Paxton
Fahnestock, Maurice Kendall	<i>ME</i>	7½	• † Edwardsville
Fahrnkopf, Charles Frank	<i>SS</i>	26	• † Decatur
Fair, Florence Leone	<i>LAS</i>	32½	• † Chrisman
Fairbairn, William Bryan	<i>CE</i>	82	• † Joliet
Fairbanks, Laurence Bowie	<i>Bank</i>	60	• † Varna
Faircloth, Samuel Edwards	<i>ME</i>	108	• † Aurora
Fairfield, Edith Louise	<i>Bus</i>	64½	• † Chicago
Fairfield, Mildred Knox	<i>Jnl</i>		• † Chicago
Fairman, Mrs. Elizabeth Armstrong	<i>LAS</i>	109	• † Champaign
Faith, Dorothy Hines	<i>LAS</i>		• † Battle Creek, Michigan
Faith, Georgie Moore	<i>LAS</i>		• † Battle Creek, Michigan
Falkenberg, George Viggo	<i>Agr</i>	65	• † Chicago
Falls, Charles Donald	<i>Bus</i>	8	• † Brazil, Indiana
Farber, Isadore Robert	<i>Ath</i>	15	• † Chicago
Farber, Jacob Alex	<i>ChE</i>	106½	• † Chicago
Farmer, Ruth Marie	<i>Mus</i>	99½	• † Bolivar, Missouri
Farnham, Henry White	<i>SS</i>	3	• † Urbana
Farrand, Elbridge Kitchel	<i>Bus</i>	35	• † Griggsville
Farrand, Elizabeth Emily	<i>LAS</i>	30	• † Griggsville
Farrell, John Patrick	<i>Ath</i>		• † Champaign
Farroll, William James, Jr.	<i>ChE</i>	62	• † Chicago
Farrow, Tiera	<i>LAS sp</i>		• † Kansas City, Missouri
Farthing, Samuel Noah	<i>Voc vs sp</i>		• † Odin
Farwell, Lynne Marion	<i>HEAgr</i>	20	• † Chicago
Fasig, Otho Samuel	<i>LAS (SS)</i>	104	• † Martinsville
Faulk, Harry Lee	<i>LawP</i>	82	• † Brownville, Texas
Faust, Rudolph Alfred	<i>Chem (SS)</i>	100½	• † Washington, D. C.
Fautsch, Emile	<i>Chem</i>	100½	• † New York, New York
Favinger, William Lloyd	<i>Agr</i>	25	• † Albion, Indiana
Faw, Marshall Ulrich	<i>LawP</i>		• † Washburn
Fay, Douglas Richards	<i>Bank</i>	65½	• † Urbana
Feddersen, Esther Carolyn	<i>LAS</i>	100½	• † Mount Olive
Fee, Lawrence George	<i>EE</i>	27½	• † Champaign
Feek, John Lester	<i>Lib sp</i>		• † Gibson City
Fehrenkamp, Winifred, B.L.S., 1912	<i>LAS irr</i>		• † Urbana
Feickert, Arthur Julian	<i>EE</i>		• † Belleville
Feldman, Abraham	<i>LAS</i>		• † Chicago
Feldman, David Ira	<i>Bus</i>	26½	• † Chicago
Feldman, Nathan	<i>ME</i>	149½	• † Chicago
Feldmann, Clement Chase	<i>Bus</i>	24½	• † Webster Groves, Missouri
Fellows, Manley Fording	<i>MedP</i>		• † Belvidere
Felmley, John Benjamin	<i>AE</i>	120	• † Normal
Feltham, Gladys Mae	<i>Bus</i>		• † Fisher
Felton, Leah Finette	<i>Bus</i>		• † Mendota
Felton, Lurton Eugene	<i>Bus</i>	8	• † Mendota
Felts, David Virgil	<i>Jnl</i>		• † Marion
Fencken, Lee Orion	<i>LAS</i>	27½	• † Buckley
Fender, Owen Dewey	<i>LawP</i>		• † Westfield
Fenn, George Prentice	<i>ME</i>	29½	• † Berwyn
Fennell, Herbert Wallace	<i>Bus</i>	8	• † Davenport, Iowa
Fera, Harriett Amelia	<i>LAS</i>	69½	• † Chicago
Ferguson, Perry Nichols	<i>EE</i>	16	• † DeKalb
Ferguson, Randon	<i>EE</i>	36	• † Tuscola
Ferguson, Robert Hugh	<i>MedP</i>	8	• † Champaign
Ferguson, Wilbert Homer	<i>Bus</i>	111½	• † Kansas City, Missouri
Ferns, Thomas Francis, Jr.	<i>Agr</i>	18½	• † Springfield
Ferree, George Bennett	<i>CE</i>	34	• † Urbana
Ferree, Letitia Lehman	<i>HEAgr (SS)</i>	118½	• † Terre Haute, Indiana
Ferrell, Duane	<i>Chem (SS)</i>	62½	• † Sullivan
Ferro, Victor	<i>ME</i>		• † Lima, Peru
Perry, Hiram Cole	<i>ME</i>		• † Zion City
Fessant, Beulah Wuanita	<i>LAS</i>	8	• † Sandford, Indiana
Pessler, Albra Henry	<i>ChE</i>	88	• † Elkland, Pennsylvania
Feuer, Milton Abraham	<i>Ins</i>	36½	• † Chicago
Fey, Emma Barbara	<i>Jnl</i>		• † Peoria

Fidler, Iona Mae	LAS		• † Champaign
Field, David Edwards	AE	121†	• † Slater, Missouri
Field, Dayton	Agr		• † Chicago
Field, Harford	AE		• † Chicago
Field, Norman Theodore	Bus	17	• † Chicago
Fielding, Floyd Emerson	LAS		• † Golfax
Fields, David Wesley	LAS	34	• † Bloomfield, Indiana
Fife, Harold Ambrose	Bank	8†	• † Palestine
Fife, Clinton McDavid	SS	8†	• † Irving
Fife, Viola Louise, B.S., 1917	SS	133†	• † Irving
Filut, Frank Felix	ComT sp	32	• † Milwaukee, Wisconsin
Finch, Flavel Paul	Bus		• † Carmi
Finer, Isadore Leonard	Chem	94	• † Denver, Colorado
Finer, Frederick Alphonso	Bus	8	• † Waukegan
Finkenbinder, Harold Harrington	Agr sp		• † Kent
Finley, Edwin John	ME		• † New Haven, Connecticut
Finley, Floyd McKelvey	Agr		• † Sparta
Finley, James Keith	Bus	5†	• † Danville
Finley, John William Riley	SS	9	• † Cambria
Finney, Dorothy	SS	91†	• † Westfield
Finney, James Thomas	Law	18†	• † Champaign
Pinnigan, Martha Mary, A.B., 1919	SS	136	• † Champaign
Piock, Ernest Franklin	CE		• † Urbana
Pirebaugh, Raymond Sims	Agr	67	• † Robinson
Fischer, Maurice	LawP		• † Chicago
Pischbacha, Antonia, A.B., 1919	SS	133	• † Centralia
Fish, Vivian Mary	LAS	102	• † Benton
Fisher, Charles Kendall	CE	2	• † Park Ridge
Fisher, Charles Theodore	MedP	22	• † Cedar Rapids, Iowa
Fisher, Clarence John	Law	28	• † Chicago
Fisher, Ferris Earl	Agr	68	• † Litchfield
Fisher, Frances Agnes	LAS	49	• † Kinmundy
Fisher, Paul	Agr	103†	• † St. Louis, Missouri
Fisher, Richard Ellis	Jnl		• † Chicago
Fisher, Richard Stoner	Chem (SS)	38†	• † Champaign
Fisher, Mrs. Victoria Thomen	LAS	12	• † Urbana
Fishman, Maurice	Bus	5†	• † Springfield
Fitch, Hugh	ME	64	• † Greenup
Fitch, Mabel L	LAS		• † Rockford
Fitch, Morgan Lewis	Jnl	35†	• † Peebles, Ohio
Fittge, George John	Bus		• † St. Louis, Missouri
Fitzgerald, Thomas	EE		• † Trenton, Missouri
Fitzhenry, Harry Richard	Bus		• † Gibson City
Fitz Hugh, Greene Smith	Bus	89	• † Spotsville, Kentucky
Fitzpatrick, Dorothy Charlotte	HELAS	34†	• † Chicago
Fitzpatrick, James Claude	MinE	120	• † Gillespie
Fitzsimmons, Richard Michael	CE		• † Chicago
Fjeld, Erastus Immanuel	Accy	87	• † Northfield, Minnesota
Fjeld, Kamilla Magdel	Mus		• † Northfield, Minnesota
Flack, Howard Romayne	Bus	2†	• † Cairo
Flack, Russell Allen	MedP	7†	• † Boswell, Indiana
Flagg, Elinor Bertha	Ed	60	• † Moro
Flagg, Frank	Ath		• † Williamsville
Flaherty, Jerome Kendall	Bus	32	• † Hubbard Woods
Flanders, Seth Webster	CE		• † Aurora
Flanigan, John Andrew	Agr	2†	• † Champaign
Flanigam, William Donald	ChE		• † Champaign
Fleck, Arthur William	Arch	86	• † Indianapolis, Indiana
Fleck, Leslie Elmer	Agr sp	8	• † Indianapolis, Indiana
Fleming, Arthur Isaac	Agr	58	• † Chicago
Fleming, Ellen Milton	HELAS	100	• † Olney
Fleming, Geneva	Arch	26	• † Champaign
Fleming, Gordon Reed	Agr		• † Wilmette
Fleming, Leland Addis	ME	76	• † Peoria
Fleming, Mildred Dorothy	LAS		• † Sullivan
Fleming, Oscar Jonathan, Jr.	ME (SS)	108†	• † Berwyn
Fleming, Rex	Bus	15†	• † Williamsport, Indiana
Fleming, Stephen James	Agr	59	• † Chicago
Flesher, Clare Edward	LawP	32	• † Taylorville
Fletcher, Benjamin Howard	Bank	8	• † Chicago
Fletcher, Gordon Van Buren	LAS	78	• † Chicago
Fletcher, James Johnson	EE		• † Warsaw, Indiana
Fletcher, Ralph Emerson	Bus	61†	• † Maywood
Fletcher, Robert Harry	LawP	62	• † Morris
Flick, Augustine Andrew	EE		• † Morris
Flickinger, Edwin Packard	Agr		• † Chicago
Flickinger, Mary Louise	LAS		• † Lanark
Flint, Gordon Monroe	Agr		• † Decatur
Flobert, Raymond	Bus		• † Bellflower
Flocken, John Beck	Voc usp		• † Urbana
Flom, George Reginald	ME		• † Olney
Florence, Joseph Bernard	Accy		• † Urbana
Floreth, William Huntington	Bus	28†	• † Chicago
Flostrom, Victor August	For C	36	• † Jacksonville
Fogel, David	Bus		• † Morrison
Fogelson, Robert, B.S., 1919	SS	139	• † Chicago

Fogelson, Rose June	Bus		* † Chicago
Fogelson, Ernest Stanley	Law	30½	* † Ann Arbor, Michigan
Fogler, Mayor Farthing	Chem	138	* † Champaign
Fogler, Ralph Waldo	ChE	61½	* † Champaign
Foley, John Harold	ChE	43½	* † Joliet
Folk, Mildred Lauretta	LAS	78	* † North Liberty, Indiana
Folkers, Florence Mildred	HEAgr		* † Frankfort
Folkers, Herbert Peter	Law		* † Frankfort
Foltz, Everett Ernest	ME		* † Urbana
Foltz, Hermann	EE	7½	* † Decatur
Fonseca, David	CE	12½	* † Guadalajara, Mexico
Fonseca, Manuel	Agr (SS)	80½	* † Calloa, Peru
Foot, Hilah Rebecca	SS	3	* † Champaign
Foote, Lorenzo Stephen	Agr	109	* † Stronghurst
Foran, Arthur Frederick	Bus	9½	* † Mt. Vernon
Ford, Jessie Corey	SS		* † Urbana
Ford, Kenneth Arthur	Agr	39	* † Chicago
Ford, Lee Harold	Agr	22½	* † Greenfield
Ford, Newell Albert	LAS	28½	* † Western Springs
Ford, Raymond Calvin	SS	9	* † Vienna
Ford, Vera Blythe Wood	SS	6	* † Springfield
Ford, William Kenneth	MedP (SS)	30½	* † Western Springs
Fordyce, Allmon Grant	AE	35½	* † Kansas City, Missouri
Foresman, Ralph Elsworth	LawP		* † Lafayette, Indiana
Forker, Frances Adeline	HELAS	30½	* † Champaign
Fornoff, Charles Wright	LawP	34	* † Pana
Forsaith, Franklin Blake	Agr		* † Rockford
Forslew, Ella	LAS		* † Chicago
Forslew, Johannes Herman	EE		* † Chicago
Foster, Mrs. Mary Esther Ballard	HEAgr (SS)	89½	* † Berwyn
Forsythe, Stanley Davis	EE	8	* † Chicago
Fort, Chauncey Owen	ME	22½	* † Palestine
Fortier, Leo Reynold	LAS	4	* † Tulsa, Oklahoma
Forti, Stella Josephine	Mus	9½	* † Oak Park
Foss, Christian Magnus	Chem		* † Chicago
Foss, LeRoy Merrill	Agr	71	* † Freeport
Foss, Ralph Edgar	EE	8	* † Chicago
Foster, Charles Vernon	MedP		* † Mt. Carroll
Foster, Edward Mern	Accy	2½	* † Danville
Foster, Elliott Eugene	LAS	35	* † Chicago
Foster, Florence Evelene	HELAS		* † Dayton, Ohio
Foster, Gerwin George	Arch	91½	* † Menominee, Michigan
Foster, Grace Marion	LAS	30	* † Champaign
Foster, Isaac Owen	SS	8	* † Odin
Foster, James Edward	Jnl		* † Chicago
Foster, John McCullough	Bus	4	* † Kansas City, Kansas
Foster, John Wellington	Agr	55	* † Spring Grove
Foster, Kenneth	Bus	8	* † Steward
Foster, Laurence Hofner	Bus		* † Oak Park
Foster, Louis Omar	Bus	9	* † Vermont
Foster, Rhoda Wilda	LAS	59½	* † Tipton, Indiana
Foster, Sydney Perry	ChE		* † Milwaukee, Wisconsin
Foster, Ulric Clarence	EE	74	* † Pecatonica
Fowler, August Lincoln	LawP	39½	* † Marion
Fowler, Clyde Harry	Accy		* † Herrin
Fowler, George Leonard	Arch		* † Hopkinsville, Kentucky
Fowler, Howard Haskell	CE	26	* † Kearney, Nebraska
Fowler, Lottie Viola	LAS (SS)	84½	* † Centralia
Fowler, Marian Roberta	Jnl sp		* † Harrisburg
Fowler, Oscar Fern	SS	7½	* † Lena
Fowler, Richard Randolph	EE	12	* † Chicago
Fox, Arthur Laurence	ChE	24½	* † Glencoe
Fox, Austin	Bus (SS)	101½	* † Oak Park
Fox, Chester Philip	MedP	34	* † Chicago
Fox, John Perry	CE		* † Chicago
Fox, Herbert Rolfe	EE		* † Sparta, Michigan
Fox, Herschell	Agr	23½	* † Chicago
Fox, Schubert Davis	LAS	28	* † Centralia
Fox, Virginia Louise	LAS	45½	* † Lincoln
Foyt, William LeVerne	ChE	30½	* † Galena
Frace, Dorothy Clarinda	HELAS		* † Ironwood, Michigan
Frakes, Beulah Marguerite	LAS		* † Champaign
Frame, Byron Emmet	SS	18½	* † Seneca, Ohio
Frame, Herbert Wayne	Agr	7½	* † Hillsboro
Frame, Mary Shafer	SS	9½	* † Eldorado
Francica, Jose Nieto	Bank (SS)	63	* † Meycawayan, P. I.
Francis, Chester Arthur	Ath sp		* † Freeport
Francis, Thomas Jefferson	SS	75½	* † Knoxville
Frandsen, David Andrew	Bus		* † Monmouth
Frankenberg, Earl Alfred	ME	26½	* † Rockford
Franklin, Burns Maurice	C & L		* † Villa Grove
Franklin, Callie Lee	SS		* † Alton Station, Kentucky
Franklin, Earl Carlis	SS	6	* † Freedom, Indiana
Franklin, Ruth Anne	LAS		* † St. Louis, Missouri
Franks, Arthur John	SS	131½	* † Springfield
Franseen, Walter Sigfred Ephram	EE sp	8	* † Woodhull

Frantz, Helen Louise	HELAS	29½	• † Lafayette, Indiana
Franzen, Frank Clarence	ME ssp		• † Rockford
Fraser, Donald Thornton	Bus	21	• † Joliet
Fraser, Gladys Genevra	LAS	99½	• † Champaign
Frawley, Mrs. Mae	Lib sp		• † Champaign
Frazier, Gladys Lucile	LAS	32	• † Evanston
Frazier, Dorothy Caroline	HEAgr	102½	• † Yorkville
Frazier, Louise	HEAgr sp		• † Fowler, Kansas
Frazier, Mary Elizabeth	LAS	47	• † Georgetown
Frazier, Mrs. Mary Stormont	LAS	5	• † Centralia
Freark, Clarence Hobart	Bus	8	• † Champaign
Frede, Glenn William	Bus	124	• † Stewardson
Frederick, Inez Anna	HEAgr (SS)	5	• † Copley, Ohio
Frederick, Victoria	LAS	99½	• † Trenton, New Jersey
Frederickson, Alice Grindley	Jnl		• † Champaign
Frederickson, John Brownlee	LAS	31½	• † Oklahoma City, Oklahoma
Freedman, Siler	ForC		• † Schenectady, New York
Freeman, Harry Duke	LG	49	• † St. Louis, Missouri
Freeman, Helen Busey	LAS	59	• † Urbana
Freeman, Roy Clinton	SS	5½	• † Homer
Freese, Bernice Leone	Bus		• † Ogden
Freese, Walter William	ME	36½	• † Chicago
Freeto, Clarence Edwin	Agr (SS)	85½	• † Glen Ellyn
French, John Sprout	LAS	99	• † Monmouth
French, Wendell Maynard	MedP	22	• † Kansas City, Kansas
Frey, Ireta Grace	LAS	66	• † Depue
Frey, John Charles	SS	29½	• † Evansville, Indiana
Fridlin, Thelma Victoria	LAS		• † Kokomo, Indiana
Friebel, Carl Gustav	AE	70½	• † Cedar Rapids, Iowa
Friedli, Ferdinand Jacob	SS	6	• † Flat Rock
Friedman, Benjamin	Bus	10½	• † Chicago
Friedman, Paul Sidney	LawP		• † Chicago
Friedmann, Arnold Maurice	CE	36½	• † Chicago
Friedmeyer, Earl John	LawP	8½	• † Springfield
Friedrich, Edgar John	EE	69	• † St. Charles, Missouri
Friedrichs, John Edwin	ME	20½	• † St. Louis, Missouri
Friend, Gertrude Elizabeth	HELAS		• † Chicago
Frier, Pauline Chapman	LAS	68	• † Benton
Frier, Pearl Elizabeth	LAS	33½	• † Benton
Frisbee, Virginia Dee	LAS	47½	• † Bushnell
Frisch, Martin	ME	75	• † St. Louis, Missouri
Friskey, Arthur Wilbur, Jr.	Bus sp		• † Moline
Frith, Marjorie Francis	HEAgr	29½	• † Kankakee
Fritts, James Edwin	Chem	34½	• † Shelbyville
Fritts, Ralph J	Jnl	30	• † Shelbyville
Fritze, Jonathan Ralph	ChE	116	• † Peoria
Froberg, Gerald Alfred	CE	31½	• † Chicago
Froehde, Wilhelmina	LAS	79½	• † Chicago
Froehly, Arthur Gustav	EE	89	• † St. Louis, Missouri
Prohardt, Elmer Philip	Agr	116½	• † Granite City
Frommann, Theodore Emil	Agr	36	• † Chicago
Frost, Kenneth Thomas William	Ins	72	• † Kankakee
Frost, Oscar	CE	68	• † Huron, South Dakota
Fruland, Ruth Myrtle	LAS	52½	• † Sheridan
Fry, Grace Bernadine	HELAS	28	• † Watsika
Frye, Howard Pascal	Agr		• † Capron
Frykholm, Ellen Viola	LAS	100½	• † Chicago
Frymire, Alden Bowers	Agr	52	• † Cameron
Puentes, Jose Fortunato	ChE	39½	• † Iloilo, P. I.
Puentes, Vicente Sanagustin	ME		• † Iloilo, P. I.
Fuhr, Clara	Agr	52½	• † Warrensburg, Missouri
Fuhrman, William	Agr sp		• † Chicago
Fuller, Agnes	LAS	95½	• † Oxford, Indiana
Fuller, Allan Chamberlin	Bus	8	* † Bryan, Texas
Fuller, Florence Stormfeltz	HELAS	115½	• † Princeton, Missouri
Fuller, Ivan Walter	Agr		• † Oxford, Indiana
Fuller, James Donald	CE	8	• † Rockford
Fuller, Juanita Ulilla	LAS		• † Chicago
Fuller, Lorene Jeania	LG	22½	• † Princeton, Missouri
Fuller, Mary Robitine	HELAS	26	• † Ludlow
Fuller, Terry Fred	ForC	12	• † Carmi
Fullerton, Greer Gilbert	LawP	7	• † Bone Gap
Fulton, George Leonard	Bus	29½	• † Hartford City, Indiana
Fulton, Gertrude Elizabeth	SS		• † Nauvoo
Fulton, Gladys DeVere	LAS	30½	• † Grant Park
Fulton, Marjorie	Mus	16½	• † Fairbury
Fulton, Paul Cedric	Bus		• † Dixon
Fulton, Robert Elliott, Jr., B.S., 1919	SS	130½	• † Dixon
Fulton, Zelda Helene	LAS	30½	• † Grant Park
Fultz, Dorothy Steen	HELAS	98½	• † Bushnell
Fultz, Lileth Cleo	Bus		• † Fairbury
Fulwider, James Hensen	Jnl	79	• † Freeport
Funaro, Karl Heinrich Wendler	LAS	32½	• † Brooklyn, New York
Funderburk, Murrel Loren	EE	8	• † Staunton
Funk, Carl Raymond	MinE	9½	• † Flat Rock
Funk, Eugene Duncan, Jr.	Agr	23½	• † Shirley



Funk, Harold Leslie	EE		* † Champaign
Funk, Irvin Milton	Bus (SS)	56 $\frac{5}{6}$	* † Kewan
Funk, John C	Bus	8	* † Danville
Funk, Mary Adell	HEAgr	10	* † Urbana
Funk, Mary Cassandra	Jnl		* † Bloomington
Fuqua, Clarence Nathan	EE	20	* † Bethany
Furness, Carl Nathaniel	MedP		* † Sullivan
Furr, Kenneth Cecil	Bank	34 $\frac{5}{6}$	* † Genoa
Furr, Paul M	Agr	93	* † Carbondale
Furst, Norine, A.B., 1919	Bus	130 $\frac{3}{4}$	* † Adair, Iowa
Fussnecker, Isidore	SS	6 $\frac{5}{8}$	* † Cullman, Alabama
Gaarder, Reidar Bastian	FOM (SS)	108 $\frac{1}{4}$	* † Christiansna, Norway
Gabrielson, Francis Alva Gilbert	FOM	6	* † Galesburg
Gaddis, John William	ME		* † Olney
Gage, Fred Leonard	ME		* † Wilmette
Gage, Mildred	LAS	97	* † Oak Park
Gaiser, Elsie Lorene	HELAS	70	* † Charleston
Galbraith, Robert	CE	8	* † Pine Bluff, Arkansas
Galbreath, Robert Adam	EE		* † Pana
Gale, Edwin Oscar	LAS	8	* † Oak Park
Gallagher, Dan Angelo	RT	4	* † Clinton
Gallagher, Fred Barron	MSE	75	* † Rockford
Gallenbeck, Oscar Carl	ChE		* † East St. Louis
Gallentine, Florence Gertrude	LAS	53	* † Morrison
Gallion, Agnes Mae	HELAS	49 $\frac{3}{4}$	* † Indianapolis, Indiana
Gallivan, Gerald Joseph	Accy		* † Urbana
Gallivan, Lyle Hugo	AE	132	* † Champaign
Gallivan, Mary Geraldine	SS	6	* † Nauvoo
Galloway, Herbert James	Accy	39	* † Indianapolis, Indiana
Galpin, John Kennedy	ME	32	* † Indianapolis, Indiana
Galster, Alma Lydia	LAS (SS)	79	* † Tower Hill
Gammage, Frederick John	Flor	23	* † London, Ontario, Canada
Gandheker, Seturam Sadasiv	Chem	117 $\frac{1}{2}$	* † Mayabaram, India
Gannaway, Lelia Maude, A.B., 1919	SS	130	* † Mutton
Gannon, Laurence Paul	CE	123	* † Chicago
Gansbergen, Richard Henry	Bus	24 $\frac{3}{4}$	* † Chicago
Gant, Virgil Arnett	LAS	63 $\frac{3}{4}$	* † Lebanon
Gantz, Grace Dorothy	LAS	108	* † Normal
Gard, Edmund Sehon	ChE	16 $\frac{3}{4}$	* † Urbana
Gard, Mary	HELAS		* † Urbana
Gard, William Lloyd	Agr (SS)	5 $\frac{1}{2}$	* † New Canton
Gardner, Robert Parker	ChE (SS)	101 $\frac{1}{2}$	* † Chicago
Gardner, Junius Raymond	CE	34	* † Urbana
Garey, Luther Thomas	Chem		* † Wilmington, Delaware
Garlough, Melvin Nave	AE	101 $\frac{3}{4}$	* † Bloomington
Garman, Eliza Bonita	RA (SS)	58 $\frac{3}{4}$	* † Urbana
Garman, Horace Bryan, A.B., 1919	Law	22 $\frac{3}{4}$	* † Urbana
Garman, Ray Lin	Agr (SS)	119 $\frac{3}{4}$	* † Bethany
Gannon, Michael Vincent	CE		* † Davenport, Iowa
Garman, Tom McWilliam	Bus		* † Urbana
Garms, Harold Henry	ME	2 $\frac{1}{2}$	* † Charles City, Iowa
Garn, Rulo Edward	Bus		* † Plymouth, Indiana
Garrett, James Howard	EE (SS)	66 $\frac{5}{6}$	* † Adamston, West Virginia
Garrett, Mabel Lloyd	LAS	11	* † East Moline
Garrett, Sherman Scott	MedP (SS)	72 $\frac{1}{2}$	* † Champaign
Garrison, George Harry	SS	101 $\frac{1}{2}$	* † Urbana
Garth, James William, Jr.	Bus		* † Beaumont, Texas
Garth, Thomas Tyrrell	Bus		* † Beaumont, Texas
Garvey, Benjamin St. John	ChE	69 $\frac{1}{2}$	* † Chicago
Garvey, Neil Ford	LawP	30	* † Illiopolis
Garvin, Noah	LAS	29	* † Champaign
Gasaway, Alice Elizabeth	SS	101 $\frac{1}{2}$	* † Normal
Gast, Walter Ferdinand	IndA	96 $\frac{5}{6}$	* † St. Louis, Missouri
Gates, Cecil Elmer	Agr	33	* † Tuscola
Gates, Clyde E	Chem		* † Harrisburg
Gates, Ruth Deane	Mus sp		* † Amherst, Massachusetts
Gates, Wilfred Miller	Bus	21 $\frac{1}{2}$	* † Allon
Gates, William Spalding	RME	8	* † Chicago
Gathany, William Van Dervoort	Bus		* † Kankakee
Gauger, Earl Victor	Arch	2 $\frac{1}{2}$	* † Charles City, Iowa
Gault, Louis	CE	74	* † Chicago
Gaunt, Grace	Mus	42	* † Mound City
Gawthrop, Eunice	Bus	64	* † Fort Wayne, Indiana
Gay, Richard Henry	EE	2 $\frac{1}{2}$	* † Portland, Arkansas
Gay, Sara Lettie	HELAS	31 $\frac{1}{2}$	* † Rockford
Gayer, Elsey Jordan	LAS	51 $\frac{1}{2}$	* † Monmouth
Gayle, Virginia Gordon	HELAS	68	* † St. Louis, Missouri
Gee, Charles Hartwell Shellry	CE	1	* † Rockford
Gee, Guy Kenney	Agr		* † Paxton
Geer, Ralph Nelson	CE	3	* † Foss, Oklahoma
Gehant, Edmund	Agr		* † Dixon
Gehlbach, Oscar Herman	Bus (SS)	98	* † Lincoln
Gehlbach, Wilbur August	Jnl	99	* † Lincoln
Gehrt, Rollin Laurence	CE		* † Rantaul
Geierrmann, Louis Joseph	CE	13	* † Carleton, Michigan
Geiger, Edwin Stein	Agr sp	8	* † Mt. Carmel

Geipel, Maxwell Elverten	Bus	8	* † Aurora
Geisendorfer, Amelia Mary	SS	4	* † Pittsfield
Geiss, Fred Frank	Bus	31½	* † Harvey
Geiss, Marie Gertrude	HELAS	91	* † Harvey
Geist, Florence Esther	LAS		* † Chicago
Gelb, Emmanuel	Arch	35	* † Chicago
Gemmill, Arthur Vernon	ChE	71	* † Freeland, Maryland
Genung, Arthur Lawrence	LAS	64½	* † Chicago
George, Lovell Watkins	Jnl		* † Olney
Gerard, Grace Bryan	HELAS	30	* † Hadley
Gerhardt, Royal Matthew	AE		* † Brookfield
Gettel, George Henry	EE	8	* † Fisher
Gettel, Oliver Jacob	Bus		* † Fisher
Gher, Ralph Giles	CE (SS)	45½	* † Allendale
Gholson, Dallas Texas	MedP	3	* † Broughton
Gibb, Harold Arthur	ChE		* † Thawville
Gibbon, Karl Malcolm	LawP	32½	* † Arthur
Gibbons, John Z	Accy		* † Paris
Gibbs, Douglas James	LAS	2	* † Chicago
Gibbs, Edward Lee	ME ssp	8	* † Chicago
Gibbs, Wayne Fulton	Bus (SS)	46½	* † Jacksonville
Gibson, Harry Wilson, Jr.	Bus	109	* † Muskogee, Oklahoma
Gibson, Helen Elizabeth	LAS		* † Springfield
Gibson, James Dick	Bus	73½	* † Muskogee, Oklahoma
Gibson, John McClure	Agr	19½	* † Atlanta, Georgia
Gibson, John Thomas	Bus	34	* † Muskogee, Oklahoma
Gibson, Leslie Reed	Bus	19½	* † Galena
Gibson, Samuel Kendall	Agr	24½	* † Kirkwood
Giehler, August Albert	Bus	7½	* † Ottawa
Giese, Esther Aline	LAS		* † Champaign
Giffin, Russell Lowell	SS	6½	* † Charleston
Gift, Myrven Frank	Bus	34	* † Peoria
Gilbert, George Gale, Jr.	Law	11½	* † Mt. Vernon
Gilbert, Helen Gale	LAS	28	* † Mt. Vernon
Gilbert, Ivan	MedP (SS)	36½	* † Oakland
Gilbert, Una Irene	LAS		* † Crystal Lake
Gilbreath, George Francis	Bus		* † Watseka
Gilchrist, Theodore	Bus		* † Crescent City
Gildea, Edward Mac Joseph	Jnl		* † Elkhart, Indiana
Gilkerson, Roka Inu	SS	4½	* † Fairfax, Missouri
Gill, Buford Harry Elledge	Accy		* † Paris
Gill, Harriett Roberta	LAS		* † Urbana
Gill, Jess Moore	ChE	26½	* † Whiting, Indiana
Gillam, Kathryn Luola Frances	Mus		* † Chicago
Gillam, Winona Mayble	LG	99	* † Chicago
Gillen, Janice Marie	HELAS	69½	* † Beardstown
Gillen, Mildred Janet	HELAS	28½	* † Berwyn
Gillenwater, Inez Applene	LAS	30½	* † Quincy
Gillespie, Frank Stanley	Bus		* † Raton, New Mexico
Gillette, William Henry	Bus	28	* † Urbana
Gillham, Charles Elmer	Agr	26	* † Edwardsville
Gilman, Alfred Trusdell	LAS		* † Eldorado
Gilmore, Franklin	Bus		* † Oak Park
Gilmore, William Edward	Law	28	* † Chicago
Gilson, Robert Hiram	LawP	18	* † Blue Island
Giltner, Angeline Harriet	LAS		* † Chicago
Giltner, France Mackey	LAS		* † Monmouth
Giltner, Gwendolyn Elizabeth	LAS		* † Chicago
Gimre, Gerald Snyder	LG	91½	* † Marshalltown, Iowa
Ginsburg, Leah	Bus		* † Chicago
Gipson, Charles Franklin	Agr		* † Amboy
Gipson, David William	Flor	67	* † Amboy
Girhard, Charles Edward	SS	80	* † Champaign
Girhard, Harold Raymond, A.B., 1918	SS	136½	* † Champaign
Gjelsness, Rudolph Hjalmar, A.B., 1916	Lib	21	* † Reynolds, North Dakota
Gjessing, Harry	MinE		* † Joliet
Glanzner, Alma Zella	HELAS	113	* † Lebanon
Glascok, Harold Burr	RT		* † St. Joseph
Glasner, Abraham Lewis	Flor	29	* † Chicago
Glasgow, Lester	LawP		* † Monticello
Glassco, Hazel	LAS	60½	* † Urbana
Gleick, Joseph Theodore	Chem	35½	* † Webster Groves, Missouri
Glenn, Dorothy May	LAS		* † Chicago
Glenn, Harold Martin	LAS	44	* † Urbana
Glenn, Jean Neva	LAS (SS)	87	* † Moline
Glenn, Matthew Wyman	Agr		* † Mt. Vernon
Glenn, Sidney Erwin	LAS	32½	* † Chicago
Gliek, Philip Percy	ME	80	* † St. Louis, Missouri
Glidden, Carter Ames	Agr	12	* † DeKalb
Glidden, Doris	LAS		* † DeKalb
Glidden, Nansen	Agr	55	* † DeKalb
Glomski, William Elmer	ChemE		* † Chicago
Glos, Donald Frederick	ME	34	* † Wayne
Glover, Clarence Washburn	Law	49	* † Galesburg
Glover, Vernon Leslie	CE	120½	* † Mattoon
Gluskoter, Samuel Philip	ME	38	* † Chicago

Gnaedinger, Charles Walter	ME		* † Chicago
Gnaedinger, Robert Joseph	ChE	132	* † Chicago
Goad, Clifford Louis	ChE		* † Villa Grove
Goble, Anna Eleanor	LAS	64½	* † Elgin
Goble, Emerson Lloyd	EE	29½	* † Elgin
Goble, Ivan Bean	Bus	93½	* † Charleston
Godbold, Edwin Dibrell	IndA	29½	* † Moline
Goddard, Imogene	LAS	31½	* † Peoria
Goddard, Myron Chester	ForC (SS)	49½%	* † Monmouth
Godeke, Frank Bernard	LawP		* † Olney
Godfrey, Joseph Charles, Jr.	Bus	2	* † Oak Park
Godwin, Marion Gunder	Agr	42	* † Decatur
Goebel, Anne Vreeland	LAS	88	* † Urbana
Goebel, Ralph Nicholas	ChE		* † Sheridan, Wyoming
Goebel, Russell Walter	MedP	36	* † Sreator
Goebel, Walther Frederick	LAS	90½	* † Urbana
Goetz, Fred Samuel	Bus	18	* † Chicago
Goff, Charles Weer	SS	91	* † Davenport, Iowa
Goff, John Alonzo	ME	48½	* † Colorado Springs, Colorado
Going, Judson Freeman	LAS	43½	* † Chicago
Goldberg, Albin Gilbert	Accy	9½	* † Joliet
Golberg, Sidney Kane	ForC		* † Chicago
Golden, Dios Edward	Agr	41	* † Champaign
Golden, Marie	LAS	93	* † Greenville
Golder, Hugh Edward	Agr	21½	* † Rock Falls
Golder, Lloyd William, Jr.	EE (SS)	68½	* † Oak Park
Goldsmith, Alfred Gerald	ME	70	* † Wheaton
Goldstein, Herbert Henry	Agr		* † Peoria
Goldstein, Herman Alfred, B.S., 1919	SS		* † Chicago
Goldstone, Lillian Katherine	LAS sp		* † Dana
Goldtrap, William Harrison	Voc usp		* † Effingham
Gollagher, Annie Hope	Arch	12	* † Veedersburg, Indiana
Gomez, Alfonso Arzapalo	AE	89	* † Mexico City, Mexico
Gooch, John Horace	Agr		* † Albion
Good, Allan James	Agr	11½	* † Kewanee
Good, Merton McKinley	RA	63½	* † Shepardstown, West Virginia
Goodall, Harriet Moore	Mus		* † Marion
Goodell, Helen	LAS		* † Beardstown
Goodell, Helen Elizabeth	LAS		* † Loda
Goodell, Hubert Ellis	Bus	31½	* † Beardstown
Goodell, Warren Franklin	SS	50½	* † Loda
Goodenough, Wilbur Stanford	LAS		* † Louisville
Gooding, Laura Lavonia	HEAgr	96	* † Belleville
Goodman, Miriam Adele	LAS	34	* † Cairo
Goodman, Rupert William	Bus		* † Dwight
Goodman, William Finley	Law		* † Louisiana, Missouri
Goodner, Sydney Merritt	MedP	68½	* † Peoria
Goodpaster, Chester Taylor	Bus	2½	* † Mt. Pulaski
Goodrich, Albert Herbert	CE	35	* † March, Wisconsin
Goodwill, Floyd Ormund	Accy	53½	* † Pecatonica
Goodwine, Harold Gleyne	CE	8	* † Rockford
Goodyear, Grace Lucille	HELAS	29½	* † Morlon
Gordin, Zella Coral	LAS		* † Champaign
Gordon, Benjamin Franklin	Agr	38	* † Wynne, Arkansas
Gordon, Frank Allyn	LAS	90½	* † Urbana
Gordon, Harold Henry	Agr		* † Alta
Gordon, Harry Raymond	Agr	33	* † Peoria
Gordon, Hazel Augusta	HELAS	73½	* † Urbana
Gordon, Kenneth Hickok	EE	113½	* † Oquawka
Gordon, Russell Lowell	IndA (SS)	71½%	* † Urbana
Gordon, Thad Wil iam	LAS		* † Newcastle, Indiana
Gordon, Wendell Holmes	LAS	41½	* † Urbana
Gordy, Nelson Stewart	LAS	22½	* † Champaign
Gore, Roy Cletis	Law		* † Champaign
Gorham, Wilbor Clark	MedP (SS)	35½	* † Fort Wayne, Indiana
Gorrell, Ralph Henry	Bus	66	* † Knox, Indiana
Goss, Henry Hamilton	Agr	101	* † Peoria
Gossard, Helen Ray	LAS	87½	* † Kansas City, Missouri
Gossett, Lorn Mathias	ME	69½	* † Casey
Gossett, William Porter	ChE	44	* † Norris City
Gothard, Ralph Waldamaer	Bus	30	* † Dundee
Gotti, Harry Dominic	Bus	70	* † Libertyville
Gotti, Hugo Palmer	Bus	66	* † Libertyville
Gottschalk, Chester Eisele	ME	34	* † Chicago
Gould, Clifford Burt	IndA	87	* † Aurora
Gould, Marion Jennings	Accy	18½	* † Yates City
Gould, Richard Ernest	ME	2	* † Chicago
Gould, Robert Harold	Bus		* † Yates City
Gould, Samuel Jules	ChE	112½	* † Chicago
Gould, Victor Leighton	ChE	60	* † Trenton
Gove, James Rhey	ChE		* † St. Louis, Missouri
Gower, Lawrence Eben	Agr	59½	* † Odell
Gower, Olive Ellis	SS		* † Odell
Gower, Roland Dewey	REE	8	* † Mendota
Grady, Paul	Bus	32	* † Marion
Graesser, Roy French, A.B., 1919	SS	134	* † Burlington, Iowa

Graff, Sam Joseph	ME	61½	• Chicago
Graham, Arthur Coulter	LAS	78	• † Peoria
Graham, Edward Gordon	SS	2	• Montezuma, Indiana
Graham, Fred Pearson	Law sp		• † Aledo
Graham, George William Austin	Bus		• † Carrollton
Graham, Gordon Clague	ME (SS)	121½	• † Chicago
Graham, Harold Haynes	LawP	44½ <sup>1</sup> / <sub>12</sub>	• † Canton
Graham, Joseph Robert	Bus		• † Allerton
Graham, Leo Handibode	LawP	2½	• † Kewanee
Graham, Ray Scott	Agr sp	2	• † Pittsfield
Graham, Robert Garner	LAS	24	• † Monmouth
Graham, Ronald Clifton	Agr		• † Athens
Graicunas, Algirdas Andrew	Agr	26½	• † Chicago
Grandey, William Warren	ME	12	• † Edgerton, Ohio
Granert, Howard	SS		• Chicago
Grant, Joseph Glenard Henry	EE	25½	• Harrisburg
Grant, Orin Bradford	ChE	33	• † Chicago Heights
Grasse, Arthur Martin	ME	85	• † Chicago
Graves, Esther Virginia	LAS		• Bloomington
Graves, George DeWitt	SS	8	• St. Louis, Missouri
Graves, Milton Albert	ME		• † Evanston
Graves, Ruth Bernadine	LAS		• † Bloomington
Gray, Beatrice Hallock	HELAS		• † St. Joseph, Michigan
Gray, Earl Kenneth	ForC (SS)	23½	• † Joliet
Gray, Florene Irene	HEAgr		• † Mattoon
Gray, Gladys Olive	HELAS		• † Suller
Gray, Harold Yowmans	Bus	49	• † Champaign
Gray, Horace Montgomery	Bus	38	• † Lerna
Gray, Howard William	EE sp		• † Lerna
Gray, Hubert William	Bus sp		• † Champaign
Gray, Kline	EE	72	• † Oakwood
Gray, Mildred	LAS		• † Lerna
Gray, Miles	Law	18½	• † Petersburg
Gray, Muriel	LAS	28½	• † Champaign
Gray, Ralston Dart	Agr		• † Greensburg, Indiana
Gray, Rena Elizabeth	HEAgr (SS)	13	• † Maroa
Gray, Sidney Jay	Agr	48	• † Princeton
Graybill, Clara May	LAS (SS)	92	• † Decatur
Graydon, William Dewey	EE	66	• † Chicago
Grear, Jacob Watson	MinE	8	• † Anna
Greeley, Paul Webb	MedP		• † Waterman
Green, Albert Pennington	Agr	26½	• † Chicago
Green, Clark	SS		• Urbana
Green, Drue Alfred	C & L		• † Parkersburg
Green, Herschel Samuel	LAS	80	• † West York
Green, John Russell	CerE	34½	• † Chicago
Green, Orion Adam	LawP	8	• † Springfield
Green, Philip Thompson	Agr		• † Altica, Indiana
Green, Vivian Julius	Agr		• † Urbana
Greene, Gladys Ellalene	LAS	49	• † Kansas City, Missouri
Greene, Harold Nathan	Agr (SS)	60½	• † Champaign
Greene, Howard Webber	Agr		• † Edelstein
Greene, Ruth McKinley	LAS	31½	• † Champaign
Greene, Scott Gorwith	LAS	90	• † Wilmette
Greene, Wilbur Lee	Bus		• † Bloomfield, Indiana
Greener, Dwight Louis	C & L	26	• † Streator
Greenhalgh, Amy Elizabeth	LAS	52½	• † Hillsboro
Greening, Jesse Arthur	Bus	8	• † Streator
Greenman, Paul Revere	IndA (SS)	25½	• † Champaign
Greenman, Ruth Ann Maria	LAS (SS)	101	• † Champaign
Greenup, Laura Dorothy	SS	5	• † Galesburg
Greer, Velma Loys	SS	18	• Urbana
Gregg, Jean Passmohr	HELAS		• † Chicago
Gregory, Allene, A.B., 1910, A.M., 1911 Ph.D., 1913	LAS irr		• Urbana
Gregory, Helen Ruth	LAS	30	• † New Berlin
Greison, Mrs. Louise Mies	Mus		• † Urbana
Gresens, Otto	Bus	71	• † West Chicago
Gridley, Frederick Russell	CE	108½	• † Ambay
Gries, Albin George	AE	42	• † Chicago
Grieser, Robert Waller	LAS	48	• † Quincy
Griesser, William Carl	Bus	24½	• † Joplin, Missouri
Griffith, Andrus Oliver	Bus	67	• † Ashton
Griffith, Dorothy Irene	Bus		• † Chicago
Griffith, Francis Willard	Bus	15½	• † Chicago
Griffith, John Lorenzo, A.B., 1902	Ed irr		• † Mt. Carroll
Griffith, John William	LAS	10	• † Champaign
Griffith, Mrs. Louise Coleman	LAS (SS)	101½	• † Champaign
Griffith, Mabel Frances	LAS sp	17	• † Urbana
Griffith, Paul Roger	CE	53	• † Huntington, Indiana
Griffith, Rachel Mary	Mus	69	• † Urbana
Griffith, Walter George	Agr	8	• † McNabb
Griffith, Wendell Crabtree	Bus	95	• † Dundee
Griffiths, Charles Thomas	Bus		• † Chicago
Griffiths, Grace Mabel	LAS	96½	• † Colusa
Griffiths, Owen Henry	EE	22	• † Downers Grove

Grigg, Gladys	LAS	53	• † Sparta
Grigg, Jerome Bruner	IndA	87	• † Joplin, Missouri
Grigg, Myron Guthrie	Bus	22	• † Sparta
Griggs, Clarence Dominique	Bus	19	• † Metamora
Griggs, Marshall Clyde	Bus	98	• † Metamora
Grigsby, Joe Carroll	SS	34	• † Anchor
Grimm, Horace Francis	Bus	68	• † St. Louis, Missouri
Grimm, Thomas Carlyle	LAS	101	• † St. Louis, Missouri
Grinnell, Francis Newell	Agr	17	• † Bourbonnais
Grisson, Elmer John	LAS	8	• † Chicago
Groat, Lucien Cresswell	EE		• † Lewistown
Grobe, Newton Ward	LAS sp	8	• † Chicago
Grobengieser, Robert Arthur	Chem	34	• † Alhambra
Groeger, Roscoe Charles	EE	28	• † Chicago
Grogan, Clarence Raymond	Ath		• † Otterbein, Indiana
Groner, Selma Josephine	LAS		• † Shreveport, Louisiana
Gronnerud, Herbert Melvin	CE	53	• † Chicago
Grosche, Alfred George, B.S., 1919	SS	139	• † Matteson
Gross, Dorothy Lillian	HELAS	95	• † Carlyle
Gross, Thuesenelda Celestina	SS	8	• † Urbana
Grossman, Homer Silas	Bus	23	• † Chicago
Grote, Waldorf William	ME	35	• † Wheaton
Grotefeld, Harold Leesman	ME(SS)	70	• † Chicago
Groth, Harvey Charles	RCE	114	• † Colorado Springs, Colorado
Grove, Frances Mary	LAS		• † Alton
Grover, Donald Dana	AE	133	• † Rockford
Groves, Charles Harold	Bus	80	• † Champaign
Groves, Franklin Isaac	Agr	36	• † Williamsville
Groves, Jane Brown	LAS sp		• † Williamsville
Groves, Pauline Trabue, A.B., 1911	SS	156	• † Champaign
Grow, Harold Asa	Bus		• † Kewanee
Grubb, Kenneth Alfred	CE		• † Atlantic, Iowa
Grube, Robert Louis	Accy	8	• † Aurora
Grumbine, Eva Evalyn	LAS	24	• † Chicago
Grunewald, Carl Frederick	LAS	119	• † Chicago
Grylich, Rica	LAS (SS)	31	• † Champaign
Guardia, Ernesto Jaen	AE (SS)	104	• † Panama City, Panama
Guenther, Louis Henry Edward	ME	66	• † LaSalle
Guenther, Raymond	EE	4	• † Paterson, New Jersey
Guenther, Robert Frederick	Bus		• † LaSalle
Guict, Rene	LAS sp	5	• † Rennes, France
Guilinger, Lillian Althea	SS		• † Joliet
Guimaraes, Archimedes Pereira	SS	43	• † Sao Paulo, Brazil
Gulledge, James Ratcliff, A.B., 1915	Lib		• † Albemarle, North Carolina
Gulley, Henry Alexander	CE	73	• † Urbana
Gulley, Sanford Joseph	ME	83	• † Urbana
Gullicksen, Rowland Hessler	Agr		• † Chicago
Gum, Mary Elizabeth	LAS	25	• † Martinsville, Indiana
Gumm, Minnie Carol	LAS	69	• † Marseilles
Gumz, Frederic William	ME	12	• † Aurora
Gunderson, Norris Elwood	EE	8	• † Mitchell, South Dakota
Gundlach, Wallace Charles	LAS		• † St. Louis, Missouri
Gunn, Helen Elizabeth	HELAS		• † Port Arthur, Texas
Gunning, Dennis Philip	Accy	43	• † Champaign
Gunning, Marie Margarite	LAS		• † Urbana
Gunning, Nadine Elsie, A.B., 1919	SS	133	• † Wilmington
Gunning, Tress Kathleen	LAS	43	• † Urbana
Gunther, Regina Louise	LAS	99	• † Owensboro, Kentucky
Guntton, George Edwin	ChE	53	• † Simcoe, Ontario, Canada
Guntton, Mrs. John Aberdeen	Mus sp		• † Urbana
Guptarak, Thavin	RA		• † Cambridge, Massachusetts
Gupte, Shantaram Shankar	Mus sp	28	• † Bombay, India
Gurda, Francis Stanislaus Roman	AE	116	• † Milwaukee, Wisconsin
Gurtler, William August	CE	11	• † Chicago
Gustafson, Edna Myrtle Madeline	Chem	80	• † Joliet
Gustafson, Hilmer John	AE	66	• † Kiruna, Sweden
Gutfreund, Norman Leo	LawP	29	• † St. Louis, Missouri
Guthrie, Donald John	Bus	43	• † Robinson
Guthrie, Kenneth William	ME		• † Jacksonville
Gwinn, Andrew Burkey	LAS	44	• † Urbana
Gwinn, John Fulton	LAS		• † Fairland
Haag, Ivan Lyle	Chem	68	• † Mason
Haag, Ivan Milton	Chem		• † Whiting, Indiana
Haake, Harry George	CE	125	• † Urbana
Haas, Eli Samuel	ChE		• † Chicago
Haas, Raymond Christian	Bus	100	• † South Bend, Indiana
Haas, William Alexander, Jr.	EE	8	• † Louisville, Kentucky
Haase, Gus Jack	Bank	8	• † Memphis, Tennessee
Haase, Harold Raymond	Bus	49	• † Oak Park
Haase, Paul Ferdinand	Bus	20	• † Oak Park
Hacker, Louis Morton	MSE	65	• † Brooklyn, New York
Hackett, Elizabeth Luta	LAS		• † Tuscola
Hackman, Hazel Marie	LAS	31	• † Staunton
Hackney, Joseph Dryden	Bus (SS)	86	• † Carthage, Missouri
Hackney, Katherine	SS		• † Wellington, Kansas
Hadelman, Louis	MSE	119	• † Waukegan

Hadley, James Torrence	Agr		† Berwyn, Pennsylvania
Haft, Della May	SS	8	† Rapid City, South Dakota
Hagan, Bernard Anthony	ME (SS)	85½	• † Champaign
Hagan, Helen Lucile	LAS (SS)	74½	• † Champaign
Hagener, Charles	ME	29½	• † Beardstown
Hager, Floyd David	Chem	34	• † Cedar Rapids, Iowa
Hager, Ralph Johnston	ME (SS)	21½	• † St. Louis, Missouri
Hagler, Kent Dunlap	SS	30	• † Springfield
Hahn, Alta Ruth	Jnl	32½	• † Springfield
Hahn, Herman	LAS	3	• † Chicago
Hahne, William Fred	Bus	32½	• † Chicago
Haines, Ray Edward	SS		• † Laconia, New Hampshire
Hair, Arthur J	Low		• † Greenville
Halberg, Evar Alfred	Bus sp		• † Port Angeles, Washington
Haldeman, Glenn Merlin	EE	135	• † Ponca City, Oklahoma
Haldeman, Virgil Kenneth	EE	37½	• † Ponca City, Oklahoma
Hale, Cedric	ChE (SS)	99½	• † Chicago
Hale, George Theodore	CE	38½	• † Syracuse, New York
Hale, James Henry	Voc vs p		• † Avena
Hale, Marion Lurelia	HEAgr sp		• † Crystal Lake
Hall, Allen Howell	Jnl	34	• † Oldwick, New Jersey
Hall, Cecil James	Bus	101½	• † Urbana
Hall, Charles Proctor	ChE	54½	• † Kansas City, Missouri
Hall, Helen Florence	LAS	28	• † Belvidere
Hall, Hugh Fisher	Agr	63½	• † Bement
Hall, Lucia Augusta	Jnl		* † Champaign
Hall, Rose Cyril	EE	54	• † Rose Hill
Hall, Wilfred Emil	LAS	36	• † Chicago
Halladay, Henriett Virginia	LAS	97½	• † Streator
Hallauer, William Edward	AE	66½	• † Davenport, Iowa
Hallbauer, Ernest Ludwig	MinE	72	• † Chicago
Haller, Charles Jacob	EE	35½	• † Stultgart, Arkansas
Hallett, Dorothy Elizabeth Davey	Mus	86½	• † Bloomington
Hallett, Howard Worthington	CE		• † Chicago
Halloran, Florence Ann	Bus		• † Harvey
Hallows, Raymond LeRoy	Agr		• † East St. Louis
Hallstein, Fred John	CE		• † Pekin
Halperin, Isadore Martin	REE	34	• † Chicago
Halquist, Axel Theodore	Bus		• † Chicago
Halushka, Cornelius Paul	LAS		• † Chicago
Halvorsen, Arnold Oliver	CE	51	• † Chicago
Hambien, Lillian May	LAS		• † Chicago
Hamer, Dorothy May	HELAS	60½	• † Emporia, Kansas
Hamer, Mary Irene	LAS	96	• † Emporia, Kansas
Hamill, Warren Catlin	Bus (SS)	67	• † Marissa
Hamilton, Mrs. Arthur	Mus sp		• † Urbana
Hamilton, Grace Leonora	LAS		• † LaSalle
Hamilton, Holbrook Becker	Bus (SS)	89½ <sup>1</sup> / <sub>2</sub>	• † Audusta
Hamilton, James Roscoe	LAS	40½	• † Willow Hill
Hamilton, Marjorie B	LAS	118	• † Kankakee
Hamilton, Ralph Kenny	ChE		• † Blandinsville
Hamilton, Ray Leonidas	LAS (SS)	103	• † LaSalle
Hamilton, Thomas Patrick	ME	22½	• † Clinton
Hamiter, Robertelle	LAS		• † Little Rock, Arkansas
Hamlin, Ina Marie	ForC (SS)	100½	• † Urbana
Hamlin, Iva Pearl	HELAS	26	• † Urbana
Hammon, Bessie Lucile	LAS	4½	• † Champaign
Hammann, Doris Josephine	HELAS		• † Watska
Hammer, Lyle Frederick	LAS	44½	• † Farmer City
Hammerstein, Albert Emil	CE	25½	• † St. Louis, Missouri
Hammond, Mary	SS	8½	• † Anna
Hammond, Nelson Allan	Agr	32½	• † Barrington
Hammond, Ruth Florence	HEAgr	86½	• † Frankfort, Indiana
Hammond, William Harrison	IndA	35½	• † Barrington
Hampers, Harold Blanchard	EE	2½	• † Aurora
Hampson, Beulah Fredericka	HELAS	67	• † St. Louis, Missouri
Han, Hsiu Chang	Bank		• † Tientsin, China
Hanaajuna, Shuichi	Agr sp		• † Mishima, Japan
Hance, Paul De Witt, Jr.	EE		• † Elgin
Hancock, Mary Lillian	HELAS	15	• † Beecher City
Handke, Edna Anna	LAS		• † Forest Park
Handler, Julius	ChE	107½	• † Chicago
Handy, Harry Edwin	ME		• † Marshall
Hanes, Lily Marie	Bus		• † Harvey
Haft, Theodor Martin	Agr	37	• † New Athens
Hanger, Maynard Jewell	ChE	32	• † Byron
Hankin, Morris	CE	33½	• † Gomel, Russia
Hankins, Willard LeClair	Agr		• † Kewanee
Hanley, Chester Thomas	Arch	25	• † Jerseyville
Hanly, Darrell Irving	LAS	2½	• † Muncie
Hanna, Floyd Odel	Agr		• † Worthington, Indiana
Hannel, Vinol Mathias Seth	Voc vs p		• † Roseville
Hannon, John Michael	Agr	20	• † Chicago
Hansen, Edward Conrad	EE	41½	• † Chicago
Hansen, Everett James	ME	32	• † Brookston, Indiana
Hansen, James Edward	Chem	107½	• † Brookston, Indiana

Hansen, Lawrence Chri.	ME		• Gibson City
Hansen, Martin Carl	Bus	23	• † Chicago
Hanson, Edward Stuntz	CE		• † Elmhurst
Hanson, Frederic Dooley	CE		• † Wheaton
Hanson, George Herbert	ChE (SS)	66½	• † Chicago
Hardacre, Gilbert Kuster	ChE		• † Kansas City, Missouri
Harden, James Edward	CE	33½	• † Shelbyville
Hardesty, George Robert	Voc vsþ		• † Mound City
Hardesty, Josephine Frances	LAS	58½	• † Homer
Harding, Harold Walter	Bus	33½	• † East St. Louis
Harding, William Thomas	Chem	92½	• † Greenville
Harewood, Richard Alexander	Chem	41½	• † Winnipeg, Canada
Harford, Lyle Fowler	Agr sp	23	• † Alton
Harkness, Roy Wendel	Agr		• † Yorkville
Harlan, Charles Alexander	ME		• † Chicago
Harland, Mrs. Helen Watts	HELAS	78	• † Urbana
Harland, Marion Boyer	POM	93	• † Urbana
Harlin, Amond McKinley	Bank	29½	• † Jacksonville, Florida
Harlow, George William	SS		• Urbana
Harlow, Mrs. Gay Walter	SS	6	• Urbana
Harman, Gabriel Conger	LG		• † Waco, Texas
Harman, Howard Wynes	CE	44	• † Peoria
Harmeling, Henry Charles	EE	41½	• † Paducah, Kentucky
Harms, Carl Frederick	ME	44	• † Chicago
Harms, Mary	LAS		• † Dolton
Harms, Robert Harmon	Law		• † Chatham
Harner, Charles Emory	Jnl	2	• † Hinsdale
Harper, Charles Athiel	Ed (SS)	65½	• † East St. Louis
Harper, Elizabeth Fern	LAS (SS)	101	• † Pleasant Mound
Harper, Mildred Williamson	Bus		• † East St. Louis
Harper, Phyllis Hill	LAS	44	• † East St. Louis
Harper, Robert Osborne	Agr		• † East St. Louis
Harr, Tyler Harbin	Bus	2½	• † Champaign
Harrah, Clayton Charles	ME		• † Los Angeles, California
Harriman, John Walter	ME		• † Chicago
Harrington, Bernard Wilfred	Law		• † Champaign
Harrington, Earl Charles	Law		• † Champaign
Harrington, J G	CE	82½	• † Mt. Carmel
Harris, Alice Jane	HELAS	32½	• † Marion
Harris, David Thomas, Jr.	ME (SS)	23	• † Chicago
Harris, Emma	SS	15½	• Collinsville
Harris, Everette Lee	CE		• † Rantoul
Harris, Fay Morrow	Arch		• † Mounds
Harris, Frank Charles	LG	38	• † Coffeen
Harris, John Edgar	Agr	81	• † Coffeen
Harris, Lloyd Elbert	ChE		• † Quincy
Harris, Marshall Watts	CerE		• † Oklahoma City, Oklahoma
Harris, Mary Lillian	Mus sp		• † Houstonia, Missouri
Harris, Maurice	Chem	123½	• † Chicago
Harris, Melvin	Voc vsþ		• † Vienna
Harris, Richard August	SS	72	• † Quincy
Harris, Walter Henry	RT sp		• † Houstonia, Missouri
Harrison, Fred G	Agr	17½	• † Herrin
Harrison, Hugh Brooks	Bus	62½	• † Bloomington
Harrison, Jean Paul	Bus	2½	• † Bloomington
Harrison, Mrs. Lessie May	Mus sp		• † Urbana
Harrison, Lyle Lux	Bus	8	• † Lovington
Harrison, Ruth	HEAgr	93½	• † Bloomington
Harritt, Alphonso Bernard	EE	8	• † Des Moines, Iowa
Harry, Ruth Lucille	Jnl		• † Champaign
Harsch, John William	ChE (SS)	99½	• † Ottumwa, Iowa
Harsh, George Frederick	MedP	13	• † Garrett, Indiana
Harshberger, Frieda Irene	HELAS	25½	• † Ivesdale
Hart, Frank Augustus	ChE	8	• † Maywood
Hart, Joseph Francis	ChE (SS)	34½	• † Clinton
Hart, Marion Murphy	Law		• † Benton
Hart, Mary Miller	LAS		• † Benton
Hart, Morris Broadway	EE	17½	• † Vienna
Hart, Paul Austin	Bus	8	• † Maywood
Hartelius, Floyd Melvin	EE		• † Rockford
Harter, Baxter Burris	ME		• † Anna
Harter, Siegfried Paul	LAS	24½	• † Pana
Hartley, Miles C	LAS		• † Urbana
Hartman, Frances May	LAS		• † Freeport
Hartmann, Olga	LAS		• † Waterloo
Hartmann, Walter Hei	SS		• † Champaign
Harts, Hanson Wright	LAS		• † Chicago
Hartung, George August	Chem	37½	• † Chicago
Harvey, Alfred Dallas	LAS	92½	• † Kansas City, Missouri
Harvey, Frederic Sailor	ForC	36	• † Fairfield
Harvey, George Elliot	LawP	30	• † Lacon
Harvey, Margaret Ann	Bus		• † Elgin
Hasbrook, Robert Locke	Bus	46	• † Hinsdale
Hasenpflug, Roy	EE	89	• † Waterloo, Canada
Hasler, Bernum Francis	ME		• † Shawnee, Oklahoma
Hastings, Helen Lucile	LAS	61	• † Moline

Haswell, James McDonald	LAS	34½	† Webster Groves, Missouri
Hatch, Merle Wesley	Agr	8	† Plano
Hatch, Mildred Lucile	HELAS		† Elgin
Hathorne, Emilie Marion	LAS	33	† Waukegan
Hathorne, Zenas Franklin	Bus	30½	† Waukegan
Hauck, Esther Madeline	LAS	65	† Rolfe, Ia.
Haugh, Carl Edwin	ME	18½	† Whiting, Indiana
Haumersen, Edith Henrietta	LAS	50	† Chicago
Havens, James Dewey	Bus (SS)	96½	† Lodoga, Indiana
Hawes, Harold Harlan	Accy	36	† Atlanta
Hawk, William Henry	Agr		† Granite City
Hawkes, Janet McQuic	Chem		† Dallas, Texas
Hawkes, Joseph Bulkley	ME (SS)	28½	† Rosemond
Hawks, Jean Elizabeth	HELAS		† Cambridge
Hawks, John Uline	Accy		† Goshen, Indiana
Hawley, Allen Clark	EE		† Clinton, Iowa
Haworth, Agnes May	HEAgr		† St. Joseph
Haworth, Harry Sloan	REE	37½	† Springfield
Hawthorne, Rosene Alice	LAS		† Roberts
Hawthorne, Wendell Zenas	ME	61½	† Waukegan
Hawver, Paul Loren	SS	20	† Decatur
Hay, Donald Arthur	Jnl		† Ottawa
Hay, John Allen	LawP		† Marion
Hay, Porter Wand	EE		† Urbana
Hay, Simon DeLagneau	Agr		† Ottawa
Hayes, Dulcie	LAS sp	26	† Ogdan
Hayes, Grant Joseph	ME	1	† Indianapolis, Indiana
Hayes, Raymond	LAS		† Mason City
Hayes, Robert Cary	LAS	30½	† Urbana
Hayford, Arthur Wellesley	ChE	105½	† Chicago
Haynes, Eliza Estelle	Bus		† Mattoon
Haynes, William Ross	LAS		† Canton
Hays, Edward Cormaran	Bus	26	† Marion, Indiana
Hays, Ethel Marguerite	LAS		† Marissa
Hays, Marcus Sanders	Bus		† Worthington, Indiana
Hayse, Lillian Dolena	SS	7	† Mt. Vernon
Hayward, Harold Eugene	LAS	88½	† Cooksville
Hayward, Helen Mae	Bus		† Elgin
Hayward, Robert William	Agr		† Fairfield
Hazel, William John	SS		† Homer, Michigan
Hazelrigg, William Elmer	Jnl	25½	† Terre Haute, Indiana
Hazen, Nathan Bruce	AE	100	† Peoria
Healy, William Carleton	Bank	108	† Glenburn, North Dakota
Heaney, Blanche Mary	SS		† Joliet
Heath, Edith Mary, A. B., 1915	SS	137	† Seneca
Heath, Mildred Dorothy	HELAS	30	† Odell
Heath, William Owens	Bus		† Evanston
Heaton, Horace Edward	ME		† Anderson, Indiana
Heaton, Jeanette	HELAS	56	† New Burnside
Heaton, Raymond Lester	Agr	28	† Hoopeson
Heberer, Henry Miles	LAS	31½	† East St. Louis
Heck, Ruth Regina	SS	3½	† Pittsfield
Heckel, Erwin John	Agr		† Chicago
Heckel, Hermann Conrad Nies	Chem	95½	† Chicago
Heckman, Walter Chris	EE	111	† Pekin
Heda, Arthur Mandel	AE	109½	† Chicago
Hedgcock, Dwight Lynn	ChE	35½	† Augusta
Hedgcock, Jessamine Ferne	HELAS (SS)	90% <sub>6</sub>	† Plymouth
Hedgcock, Ralph Everette	CE	78	† Augusta
Hedgcock, Sloan Franklin	Agr	20	† Plymouth
Hedge, Margaret	LAS	61	† Chicago
Hedrich, Otto Hoffman	ME	43	† Chicago
Hedrich, Roland Louis	ME	4	† Chicago
Hedrick, Raymond Clyde	EE sp		† Glenridge
Heer, Herschel George	CE		† Sumner
Heffelfinger, Ernest Merle	C & L	3	† Champaign
Heffer, Maurice Leonard	Bus		† Chicago
Hegan, Wherritt Werden	LAS (SS)	51½	† Maywood
Hegert, Geraldine Daette	HELAS		† Amboy
Heideman, Arthur Gustav	MedP	30½	† Elgin
Heidemann, Lester Daniel	Ath	26	† Waterloo, Wisconsin
Heidenrich, Stanley George	CE		† Ottawa
Heikes, Samuel Irving	Bank	96½	† Dakota City, Nebraska
Heilbron, Simeon Edwin	LAS	57	† Chicago
Heinstein, Christian Adam, Jr.	EE		† Freeburg
Heim, Louise	SS	6½	† Evansville, Indiana
Heineman, Henry Edward Orville	ChE	32½	† Chicago
Heinrichs, Robert Miller	MinE		† Chicago
Held, Irene Lucille, A.B., 1919	SS	132	† Clay Center, Kansas
Heller, Clarence Max	AE		† Champaign
Hellgren, Stanley David	Agr		† Plano
Hellstrom, Norton Evans	Ath sp	8	† Evanston
Helm, Verna Mae	LAS	32½	† Metropolis
Helms, Elva	LAS (SS)	42½	† Veedersburg, Indiana
Helper, Walter Champ	Agr	57	† Henry
Hemb, Thorvald Edward	Bus	102	† Evanston



Hembrough, Wallace Trabue	<i>Agr</i>	110	•	Jacksonville
Hempstead, Dyllone Rodgers	<i>LAS</i>		•	Houston, Minnesota
Henares, Hilarion Gensole	<i>ME</i>		•	Bacolod, Philippine Islands
Henderson, Anna Hazel, A.B., 1918	<i>SS</i>	135	•	Urbana
Henderson, Aurel Finley	<i>LAS</i>	60	•	Paxton
Henderson, John Carl	<i>SS</i>	8	•	Atchison, Kansas
Henderson, Lawrence Jewell	<i>Bus</i>		•	Champaign
Henderson, Russell Dewey	<i>Arch</i>		•	Humrick
Henderson, Walter Bruce	<i>MedP (SS)</i>	16½	•	Holcomb
Hendren, Owen Simpson	<i>Bus</i>	14½	•	Lancaster, Kentucky
Hendricks, Elmer Guess	<i>LawP</i>	34½	•	Belleville
Hendricks, Floyd William	<i>Bus</i>	31½	•	Barry
Henle, Raymond Zoller	<i>ForC</i>	24	•	Davenport, Iowa
Henley, Byron	<i>Agr sp</i>		•	Dabneys, Virginia
Henley, Elmer Howard	<i>Bus</i>	26	•	Nashville
Henley, Mary Latie	<i>LAS</i>	21½	•	Mattoon
Henley, Raymond Morgan	<i>Agr sp</i>		•	Springfield
Henley, Thomas Edward	<i>Agr</i>	70	•	Mattoon
Henley, Virginia Richmond	<i>LAS</i>	56	•	Mattoon
Henn, Donald Everett	<i>CE</i>	32½	•	Park Ridge
Henneberry, James Leo	<i>ME</i>	54	•	Rankin
Hennessey, Floyd Arthur	<i>MedP</i>		•	Chicago
Henning, Edgar Bennett	<i>IndA</i>	22½	•	Chicago
Henning, William Campe	<i>EE</i>	2	•	Chicago
Henninger, Fred A., Jr.	<i>Arch</i>	46½	•	Omaha, Nebraska
Henrichs, Karl Henry	<i>SS</i>		•	Cleveland, Ohio
Henry, Bernard Edward	<i>EE</i>	12	•	Villa Grove
Henry, Gifford Harold	<i>MedP</i>	29½	•	Tulsa, Oklahoma
Henry, James Ray	<i>LAS</i>		•	Kansas
Henry, Mabel Frances	<i>HELAS</i>		•	Urbana
Henry, Vernon Wilmot	<i>Bus</i>	5½	•	Tulsa, Oklahoma
Henry, Victor Max	<i>Flor</i>	124½	•	Champaign
Henry, William Carter	<i>ChE</i>	61	•	Urbana
Hensley, Olive May	<i>Mus sp</i>	2½	•	Champaign
Henson, Charles Newell	<i>Bank</i>	100½	•	Villa Grove
Henson, Mark Stephen	<i>LAS</i>	13	•	Urbana
Henson, Ralph Corwin	<i>SS</i>	75½	•	Mt. Sterling, Ohio
Hepburn, Hoyt James	<i>Bus</i>		•	Chicago
Heppes, Albert Henry	<i>Bus</i>	30	•	LaGrange
Herbert, Harold Henry	<i>Bus</i>	32	•	Elmwood
Herbert, Ralph Elmer	<i>ME</i>	30	•	Mendota
Herche, Arlyn George	<i>CE</i>	6½	•	Rushville
Herman, Alfred Baker	<i>MedP</i>		•	Belleville
Herman, Frank Andrew	<i>C &amp; L</i>	8	•	Mounds
Herr, Benjamin Russell	<i>EE</i>		•	Sterling
Herrcke, Ralph Julius	<i>SS</i>	82½	•	LaSalle
Herren, Allen Bliss	<i>Bus</i>	54	•	Fillmore
Herrick, Mildred Katherine	<i>HELAS</i>		•	Farmer City
Herrick, Norman Gains	<i>ME</i>	2½	•	Waterman
Herriman, Bernard	<i>Bus</i>		•	Brook, Indiana
Herrin, Dorris	<i>Arch</i>		•	Herrin
Herrin, Jean	<i>HELAS</i>		•	St. Louis, Missouri
Herrmann, Clarence Charles	<i>Bus (SS)</i>	98½	•	Kenosha, Wisconsin
Herrmann, Henry Julius	<i>EE</i>	68½	•	Chicago
Herrold, Maurice Frank	<i>Bus</i>		•	Columbia City, Indiana
Hershey, Phillip Adolph	<i>Accy</i>	8	•	Charleston
Hersman, Gladys Elizabeth	<i>HELAS</i>	95	•	He sman
Herwig, Lee Conrad	<i>CE</i>	78½	•	Ashton
Herzog, Ralph Benjamin	<i>LAS</i>		•	Chicago
Heseman, Henry Bailie	<i>Bus</i>	96½	•	Winfield, Kansas
Heslip, Malcolm Farnsworth	<i>EE</i>	12	•	Danville
Hess, Doris Edna	<i>Mus</i>	66½	•	Champaign
Hess, Lester Simon	<i>Bus</i>	5	•	Greencastle, Pennsylvania
Hesse, Aubrey Lawson	<i>Bus</i>	58½	•	Elgin
Hesser, Frank Raymond	<i>Bus (SS)</i>	29	•	Urbana
Hesser, George Batchelder	<i>Bus</i>	51	•	Urbana
Heuer, Joseph Henry Anthony	<i>CE</i>	106½	•	Libertyville
Hewes, Edwin Butcher	<i>LAS</i>	67½	•	Quincy
Hewes, Ella Isabelle	<i>LAS</i>	8	•	Crele
Hewes, George Cavender	<i>AE</i>		•	Quincy
Hewett, Philip Crane	<i>ME</i>		•	Boston, Massachusetts
Hiaason, Carl Andreas	<i>Law</i>		•	Church Ferry, North Dakota
Hibbard, Edith	<i>HELAS</i>	97½	•	Kansas City, Missouri
Hibben, James Herbert	<i>LAS</i>	92	•	Indianapolis, Indiana
Hickerson, Ronald Thomas	<i>SS</i>	6	•	Springfield, Kentucky
Hickey, John Raymond	<i>CE</i>	52	•	Columbus, Ohio
Hickman, Allen Ray	<i>CE</i>	27½	•	Danville
Hickman, Peryl Frances	<i>LAS (SS)</i>	103	•	Urbana
Hickman, Lucie Pearl, A.B., 1910	<i>Bus irr</i>	142	•	Urbana
Hickman, Robert Ernest	<i>EE</i>	8	•	St. Louis, Missouri
Hickman, James Franklin	<i>SS</i>	8	•	Eldorado, Oklahoma
Hickox, Warren Rupert, Jr.	<i>ME</i>	4	•	Kankakee
Hicks, Chester Winslow	<i>ME sp</i>	8	•	Washington, D. C.
Hicks, Dorrance P	<i>Bus</i>	8	•	Santa Barbara, California
Hicks, George Mayhew	<i>Bus sp</i>	8	•	Glencoe
Hicks, John Emer	<i>Agr (SS)</i>	91½	•	Onarga

Hicks, Reon Darius	FOM		† Blandinsville
Hicks, Victor LaNaier	Agr	44	† Columbia, Missouri
Hielscher, Martha Concordia	LAS		† Minonk
Hiett, Mabel	SS	14	† Greenville
Higdon, Harold Carey	EE	32½	† Kansas City, Missouri
Higgs, Arthur Garfield	LawP		† Horvey
Hildebrand, Thomas Henry	Agr	27½	† Oak Park
Hilgard, George	LAS	8	† Belleville
Hill, Anita Lucile	LAS	32	† Millersville
Hill, Arthur Willmott	Agr (SS)	43½	† Chicago
Hill, Gertrude Ozeta	LAS (SS)	85	† Urbana
Hill, Harold Wayne	LAS (SS)	101½	† Decatur
Hill, Hugh Harold	Bus		† Newark
Hill, Irving, Hammond	IndA	52½	† Hammond, Indiana
Hill, John Lord	ME	44	† Oak Park
Hill, Raymond Max	Agr	76½	† Vincennes, Indiana
Hill, Richard Jackson	Bus	34½	† St. Louis, Missouri
Hill, Roy Geibe	LawP	39	† Mt. Vernon
Hill, Sam Houston	Ath	8	† Champaign
Hill, Stuart William	MinE		† Chicago
Hill, Winona	LAS		† Decatur
Hillmeier, Koesmer Alfred	EE		† Champaign
Hilton, Henry Mark	Bus	21	† Chicago
Himes, Shelby Dexter	Bus (SS)	62	† Galva
Himrod, Tracy Woodward	Bus sp	3½	† Waterford, Pennsylvania
Hincke, William Bernard	EE	2	† Pinckneyville
Hinds, Almon Wilkinson	CE	109	† Decatur
Hirschfeld, Harriet	LAS	56	† Chicago
Hirschfeld, Rose Ella	LAS sp		† Chicago
Hirth, Delmar Herman	Agr	35½	† Quincy
Hiser, Nova Ovalla	LAS		† Cerro Gordo
Hite, Hugh Homer	Accy	19½	† Philpot, Kentucky
Hitt, Willis Henry	MinE	14	† Chicago
Hitz, Pauline Mae	SS		† Franklin, Indiana
Hixon, Ada Hope, A.B., 1919	SS	132	† Urbana
Hixson, Herschel Forest	Bus	20	† Tecumseh, Oklahoma
Ho, Bun Bin	SS	13½	† Hongkong, China
Ho, Tse Pao	SS	50	† Peking, China
Ho, Yao	SS	8	† Yumanfu, China
Hoadley, Lyman Mortimer	CE		† Tarpon Springs, Florida
Hoag, Ethel Gladys	Bus		† Chicago
Hobart, Lloyd Beatty	Chem (SS)	110	† Champaign
Hoblitt, Charles Sidney	Agr		† Jacksonville
Hobson, Frank Amous	Agr		† Vincennes, Indiana
Hochstrasser, Maude Adelaide	LAS	28	† Urbana
Hocking, Helen Elizabeth	LAS	73	† Rockford
Hodam, Florence Elizabeth	Mus		† Ludlow
Hodam, Lowell Alexander	Agr	12	† Ludlow
Hodde, Harry Lloyd	EE		† Springfield
Hodges, Glen Caraway	MedP	8	† Ridgefarm
Hodges, Harriette Lois	Bus	65½	† Rock Island
Hodges, James Myron	EE	25	† Antrim, New Hampshire
Hodges, Jefferson Houston	Ath	8	† Battle Creek, Michigan
Hodgin, Robert Chatfield	Flor		† Richmond, Indiana
Hodgson, Horace Mulford	Jnl	67½	† Rockford
Hodson, Glendon Conley	LawP		† Centralia
Hoefer, Herbert	AE		† Davenport, Iowa
Hoff, Einar Benjamin	Agr (SS)	28½	† Oak Park
Hoffman, Alvin C	EE	8	† Red Bud
Hoffman, Elizabeth Stark	LAS	63½	† Champaign
Hoffman, Harold Leonard	Accy (SS)	105	† Dwight
Hoffman, Harry Burton	Agr	60	† Vandalia
Hoffman, John Brewster	Chem	59½	† Kewanee
Hoffman, Josephine Frances Beatrice	LAS	30½	† Spring Valley
Hoffman, Mayme Gertrude	LAS	58½	† Spring Valley
Hoffman, Robert William	LAS	2	† St. Louis, Missouri
Hoffman, William MacKay	ME		† Chicago
Hoffmann, Frances Bernice	LAS		† Chicago
Hoffmann, Marie	SS	8	† Malta, Ohio
Hoffmann, Mary Margaret, A.B., 1919	SS	130½	† Champaign
Hogan, Clara Louise	Bus		† Byron
Hogle, Eulita Dorothy	SHAgr		† Chicago
Hogue, Leland Jamieson	EE (SS)	55½	† Monmouth
Hole, Haakon Sveere	Arch	92	† Christiansana, Norway
Hokenson, Carl	ChE		† Canton
Holcomb, Max Kenneth	Agr		† Springfield
Holder, Ross D N	Bus		† Kankakee
Holdoway, Annie	SS	7	† Sparta
Holland, Harold LeRoy	MedP	18½	† Pekin
Hollander, Ethel Mary	Accy (SS)	88½	† Chicago
Hollands, Harold Waters	ME (SS)	35½	† Oak Park
Hollem, Amy Irene	Mus		† Rockford
Holler, Lee Scholfield	Agr	26½	† Marshall
Hollgren, Albin Per	Voc esp		† Cambridge
Holliger, George Herbert	REE	2½	† Tremont
Hollingshead, Thomas Elijah	Chem	28½	† Zion

Hollingsworth, Denzil Maurice	CE	65½	• † St. Louis, Missouri
Hollinshead, Bayard Hubbell	LAS	8	• † Thomson
Hollowell, John Delos, Jr.	Bus	8	• † Chicago
Holman, Roy Lester	Agr sp	8	• † Mt. Carroll
Holmboe, Erling	CE		• † Iron Mountain, Michigan
Holmes, Andrew Welwood	EE		• † Chicago
Holmes, Averill Keith	Jnl		• † Lewistown
Holmes, Claude Ernest	Agr	28½	• † Lindenwood
Holmes, Floyd Royal	Agr	99	• † Baylis
Holmes, John Kenneth	ME	8	• † Danville
Holmes, Mildred Lleulla	LAS	30	• † Chicago
Holmgren, Irving Joel	EE	8	• † Evanston
Holroyd, Harry King	Agr	8	• † Genoa
Holson, Richard See	LAS (SS)	25	• † Farina
Holst, William Henry	LAS		• † Granite City
Holstein, Frances Belle	HELAS		• † Champaign
Holston, James Benjamin	EE		• † Nashville
Holt, Elisabeth Warner	HELAS	45	• † Evanston
Holt, Herbert Edward	Bus	68	• † Wheaton
Holt, Lester Hampton	Bus	34	• † Wheaton
Holt, Nellie	HELAS	67½	• † Greenup
Holt, Thomas Jasper	ForC		• † Nashville, Tennessee
Holtermann, Ina Lucille	HELAS	66	• † Sadorus
Holton, William Bultman	ChE	64½	• † Olmstead Falls, Ohio
Holtschlag, Theresa Anna	SS	8	• † Quincy
Holtz, Alvin	Bus		• † Evansville, Indiana
Holz, Pearl Palmer	HELAS	24	• † Chicago
Holzmann, Otto Meyer	ChE	113	• † Chicago
Holzmann, Vera Marie	Mus sp		• † Grant Park
Homan, Earl Wilson	AE	69	• † Kansas City, Missouri
Honefinger, Birdie Susan	SS	1½	• † Taylorville
Honen, John Gustavus	Accy		• † Sterling
Hook, Mary Elizabeth	Jnl		• † Chicago
Hooper, Opal Irene	HELAS		• † Dana, Indiana
Hoopes, Charles Oliver	AE		• † Chagrin Falls, Ohio
Hooton, Donald Wesley	Bus	4	• † Danville
Hoover, Glenn Franklin	Agr		• † Morrison
Hoover, Glenn LeFevre	ForC	70½	• † Sterling
Hoover, Helen Rebecca	SS	4½	• † Ashley
Hoover, Robert Kirk	Bus		• † Oak Park
Hoover, Ruth Irene	LAS (SS)	66	• † Lorington
Hope, Herbert Otto	Jnl	95½	• † Meredosia
Hopkins, Byron Montz	Bus sp		• † Chicago
Hopkins, Helen Millar	Chem	31½	• † Urbana
Hopkins, Le Roy Trimble	Agr	30½	• † Walnut
Hopkins, Mary Ann	Jnl	32	• † Chicago
Hoppin, Franklin Buck	Agr		• † Chicago
Hoppin, Gladys Estella	LAS	122	• † Virden
Hopping, Helen Sylvesta	Ed	61	• † Glen Ellyn
Hopping, Louis M	MedP	8	• † Mt. Pulaski
Hopping, Ruth Jeannette	Flor	60	• † Glen Ellyn
Horblit, Sylvia	CCS		• † Rock Island
Horn, Orville Ray	Voc vs p		• † McLean
Horn, Reinhold William	ME		• † Chicago Heights
Horner, Edwin Arno	AE	31½	• † Kewanee
Horner, Ruth Hermione	Jnl		• † Tiskilwa
Horney, Catherine Theresa	LAS	23	• † Colfax
Horning, Otha Inez	HELAS	31½	• † Urbana
Hornor, James David	Agr		• † Bismarck
Horr, Ora Glenn	Agr		• † Champaign
Horrall, Kinneth Chauncey	Bus (SS)	96½	• † Olney
Horrall, Sarah Elizabeth	LAS		• † Olney
Horrell, Albert Josephson	Bus	11	• † Chicago
Horst, Lester Richard	IndA	22	• † Rock Island
Horton, Frank Grace	ME	11½	• † Chicago
Horton, John Horace	MedP		• † Garrett
Hoshor, Perry Ernest	Bus		• † Peoria
Hoskins, Florence	HELAS		• † LaGrange
Hoskinson, Bruce Quin, A.B., 1916	SS		• † West York
Hostetler, George Minier	Bus	8	• † Washington, D. C.
Hostetler, Joseph Columbus	LAS	144½	• † Decatur
Hostetler, Oliver Clinton	SS	33½	• † Charleston
Hostetler, Anita Miller, A.B., 1917	Lib	32½	• † Lawrence, Kansas
Hostetler, Marie Miller, A.B., 1919	Lib		• † Lawrence, Kansas
Hostetler, Jean Shaw	Ath		• † Olney
Hotz, John William	MedP	23	• † Marissa
Houck, Guenn Muriel	LAS		• † Douglas, Arizona
Houge, Edna Theodora	HELAS		• † Viroqua, Wisconsin
Hough, Ernest Ray	ME	21	• † Champaign
Hough, George Jere	Bus	30	• † Maywood
Hough, Lida Cremora	LAS	29	• † Chicago
Hough, Margaret	LAS		• † Maywood
Hough, Warren Roberts	Bus	65½	• † Danvers
Hougham, Ethel Beatrice	Mus		• † Bellflower
Hoult, Charles Howard	LAS (SS)	126½	• † Chrisman
Hounsley, Clara Ann	LAS	74	• † Carlinville

House, Leona Pearl, A.B., 1898	<i>Mus irr (SS)</i>	80	* † Champaign
Housel, Charles Edward	<i>MSE</i>	72½	* † DeKalb
Houser, Arthur Martin, Jr.	<i>ME</i>	90	* † Oak Park
Hoven, Genevieve Loral	<i>LAS</i>	26½	* † Chicago
Hovey, Alfred Dominicus	<i>Bus</i>	3	* † Nokomis
Hovey, Russell Wilson	<i>Agr</i>	70½	* † Capron
Howard, Albert Marshall	<i>CE</i>		* † Chicago
Howard, Arthur Winfred	<i>LAS</i>		* † Gurnee
Howard, Charles Gerard	<i>Law (SS)</i>		* † Oakwood
Howard, Dana Charles	<i>ME</i>	8	* † Urbana
Howard, Daniel Orson	<i>Ath (SS)</i>	58	* † Champaign
Howard, John Carver	<i>EE</i>	53½	* † Champaign
Howard, Mabelle Lorraine	<i>LG</i>	53	* † Le Roy
Howard, Robert Lee	<i>LAS</i>	64	* † Donnellson
Howe, Carl, Jr.	<i>Agr ssp</i>		* † Oak Park
Howe, Carleton Gibson	<i>Agr</i>	27½	* † Glen Ellyn
Howe, Clifford	<i>Bus</i>	114	* † Miles City, Montana
Howe, Dorothy Esther	<i>LG</i>		* † Urbana
Howe, Eleanor	<i>HEAgr (SS)</i>	31½	* † Homewood
Howe, Frederick King	<i>MinE</i>	14	* † Downers Grove
Howe, Harvey Sheldon	<i>ME</i>	8	* † Cokedale, Colorado
Howe, Josephine, A.B., 1919	<i>Law</i>	30	* † Mansfield
Howe, Mary Mae	<i>HELAS (SS)</i>	6	* † Champaign
Howe, Roscoe Leland	<i>Bus</i>		* † Mansfield
Howe, Theodore Roosevelt	<i>ME (SS)</i>	20½	* † Rantoul
Howe, Willard Russell	<i>Bus</i>		* † Mansfield
Howe, William Clayton	<i>Agr</i>	58½	* † Mansfield
Howell, Samuel Marsden	<i>Bus</i>		* † Carman
Hoves, Thomas Hawley	<i>SS</i>	9	* † Bethany, West Virginia
Howorth, Edmund Briggs	<i>LawP</i>		* † Chester
Hoyer, Laurence Edward	<i>Bank</i>		* † Battle Creek, Iowa
Hoyt, Emily Josephine	<i>LAS</i>		* † Fisher
Hoyt, Lucius Warner	<i>LowP</i>	8	* † Denver, Colorado
Hrabik, William Kenneth	<i>Law</i>	28	* † Murphysboro
Hrdlicka, Bohnmilla	<i>LAS</i>	64	* † Rockford
Hsieh, Hsueh Lian	<i>ForC (SS)</i>	87½	* † Wusih, China
Hsu, Kon Tien	<i>Law sp</i>		* † Changsanyun, China
Huang, Chien Hsun	<i>RA (SS)</i>	58½	* † Canton, China
Hubbard, Karl Hammond	<i>ME</i>		* † Quincy
Hubbard, Martha Helen	<i>HELAS</i>	32½	* † Carrollton
Hubbard, Paul Henry	<i>Jnl</i>	28½	* † Lincoln
Hubbard, Rodger Wolcott	<i>LAS</i>	29½	* † Kankakee
Hubbard, Gerald Wesley	<i>LawP</i>	28½	* † Beardstown
Hubbard, Richard Paul	<i>MedP</i>	32½	* † Monticello
Hubbell, Edward Lawrence	<i>Arch</i>	58	* † Davenport, Iowa
Huber, John Bartholemew	<i>Bus (SS)</i>	53	* † Urbana
Huber, Louis William	<i>MinE (SS)</i>	71½	* † Urbana
Hudgens, Elsie Alela	<i>HELAS</i>	56½	* † Johnson City
Hudson, Charles Henry	<i>Chem</i>	80	* † Oak Park
Hudson, Hersel Windel	<i>Agr</i>	108½	* † St. Joseph
Hudson, James Rollan	<i>Agr</i>	33	* † Springfield
Hudspeth, Robert Ray	<i>Bus</i>		* † Marion
Huey, Samuel Robert	<i>Agr</i>	14	* † Hannu City
Hu†, Clyde Everet	<i>Bus</i>		* † St. Joseph
Hu†, Gladys Elizabeth	<i>Bus</i>		* † Urbana
Hu†, Helen Elizabeth	<i>LG</i>	32	* † Champaign
Hu†, Katherine	<i>LAS</i>	98½	* † Champaign
Huffer, Enos George	<i>Agr</i>	22	* † Urbana
Huffman, Eugene Stewart	<i>Chem</i>	86	* † Rockford
Huffman, Frank	<i>Bus</i>		* † Palestine
Huffman, Howard Marion	<i>Bus</i>	20	* † Arcola
Hug, Leslie Joseph	<i>Arch</i>	71½	* † Highland
Huggins, Elsie-jean	<i>Jnl</i>		* † Beleville
Hughes, Alberta	<i>LAS</i>	60	* † Sullivan
Hughes, Harry Clifford	<i>Bus</i>		* † Granite City
Hughes, Henry Loren	<i>Agr</i>	60	* † Table Grove
Hughes, Kathryn Howard	<i>Mus</i>	25½	* † Chicago
Hughes, Morris Nelson	<i>Bus</i>	29½	* † Champaign
Huisken, Harry Arnold	<i>CerE</i>	116	* † Chicago
Hulbert, Francis William	<i>LAS</i>	7½	* † Allamont
Hull, Dorothy Elizabeth	<i>LAS</i>		* † Onarga
Hull, Louise	<i>LAS</i>	57½	* † Salem
Hull, Mable Clare	<i>SS</i>		* † St. Joseph, Missouri
Hull, Thomas Clinton	<i>Bus</i>	22	* † Wheaton
Hull, Trustum Harold	<i>Bus</i>	105	* † Clinton
Hullfish, Henry Gordon	<i>LAS sp</i>	66	* † Washington, D. C.
Huls, Cuthbert Myron	<i>SS</i>	7	* † Indianapolis, Indiana
Humphrey, Arthur Cole	<i>ChE</i>	8	* † St. Louis, Missouri
Humphrey, Charles Robert	<i>Bus</i>		* † Decatur
Humphrey, Martha Blair	<i>HELAS</i>	97½	* † St. Louis, Missouri
Humrichouse, Gladys	<i>Bus</i>	28	* † St. Joseph
Hunn, Fred Dwight	<i>Voc vsp</i>		* † Hinsdale
Hunsche, Grace Maria	<i>HELAS</i>		* † Chicago
Hunsley, Alice Lillian, A.B., 1918	<i>SS</i>	133	* † Champaign
Hunt, Albert Allen	<i>SS</i>	8	* † Mt. Vernon
Hunt, Alice Pauline	<i>LAS</i>		* † Gibson City

Hunt, Carroll Robert	Bus		* † Chicago Heights
Hunt, Dorothy Kimball	LAS	30½	* † Oshkosh, Wisconsin
Hunt, Helen Lucile	Ed (SS)	98½	* † Oak Park
Hunt, Kenneth	Agr	21	* † Roodhouse
Hunt, Leonard Garland	IndA	31½	* † Springfield
Hunt, Marsden Healey	CerE	104½	* † Urbana
Hunt, Nellie Frances	LAS		* † Marshall
Hunt, Robert Edwin	Arch		* † Chattanooga, Tennessee
Hunt, Valentine Brewster	Arch	109	* † Kansas City, Missouri
Hunt, Wiley Emery	Bus	20	* † Gibson City
Hunter, Arthur	IndA	29½	* † McHenry
Hunter, Elva Watkins	SS	7	* † Greenville
Hunter, Esther Louise	HELAS		* † Henry
Hunter, Harold Leslie	EE	32½	* † Pesotum
Hunter, James Albert, A.B., 1914	SS	158½	* † Urbana
Hunter, John William	SS	20	* † Colchester
Hunter, Oscar Lee	Bus	43½	* † Shawnee, Oklahoma
Huntington, Lloyd Lucius	AE	100	* † Pontiac
Huntley, Harry Russell	Agr	98	* † Huron, South Dakota
Hurd, Burton Cannon	Bus		* † El Paso
Hurley, Frank John, Jr., B.S., 1919	SS		* † Chicago
Hurt, Erwin Fred	Bus	31½	* † Oak Park
Hurwith, Samuel Howard	Bus	27	* † Chicago
Hurwitz, Emanuel	ME	70	* † Chicago
Hust, George William	LAS	6	* † Chicago
Husted, Granger	ME		* † Zion City
Husted, Irma Jean	LAS	27½	* † Cornell
Husted, Stanley Fletcher	Bus	20	* † Bloomington
Huston, Harold Lee	LAS	62	* † Crawfordville, Iowa
Hutchins, Anna Elizabeth	LAS	98	* † Roscoe
Hutchinson, John Theodore	CerE		* † Carbone, Indiana
Hutchison, Aline Gertrude	LAS (SS)	62½	* † Mt. Vernon
Hutchison, Blanche Davis	HEAgr	30	* † Lutichfield
Hutton, Clifford Walter	Arch	115½	* † Waterloo, Iowa
Hutton, Eugene Harold	Agr		* † Charleston
Hutton, Hobart Graham	Agr	33	* † Brookville, Maryland
Hutton, John Alexander	MinE		* † Herrin
Huxel, Charles Joseph	Agr	47	* † Granite City
Hyde, Harvey Woolsey	SS		* † Watertown, New York
Hyde, Holton Douglas	Bus	2½	* † Elgin
Hyde, Rosa Kate	Mus sp (SS)	16	* † Champaign
Hyland, Christine Barbara	LAS	35	* † Urbana
Iben, Ida Hermina	LAS	33	* † Peoria
Ibenfeldt, Ralph Winfield	ME	83	* † Chicago
Icenogle, Carus Stanley	Bus	28½	* † Mattoon
Ide, Agnes Dorothy	LAS	31	* † Creston, Iowa
Ide, Robert Armington	Bus	88½	* † Washington, D. C.
Ihm, Joe Marion	Agr sp	8	* † Omaha, Nebraska
Illyes, Cleamon Daniel	Agr sp	2½	* † Atlanta, Indiana
Illyes, Clifford Raymond	Agr	8	* † Atlanta, Indiana
Imlay, Robert John	LG		* † Zanesville, Ohio
Ingersoll, Donald Louis	Arch	8	* † Bloomington
Ingmanson, John Harold	ChE	59	* † Harvey
Ingold, Arthur Johnson, Jr.	ME	34½	* † Appleton, Wisconsin
Ingram, Ralph Lindsay	LG	92	* † Chicago
Ingram, Robert Paul	Chem	15½	* † Chicago
Ingwersen, Burton Ahrens	CE	107½	* † Fullon
Ingwersen, John Arthur	Jnl	98½	* † Chicago
Ingwersen, Philip Augustin	Agr	30	* † Chicago
Inman, Richard Frank	MedP		* † Chicago
Innis, Charles Albert	LAS sp	14	* † Bellflower
Inouye, Tomi	Flor	103	* † Chiba-Ken, Japan
Ireland, Enid Emily	LAS	63	* † Quincy
Ireland, Hallie Madeline	LAS	53	* † Washburn
Irwin, Dalton	Bus	34½	* † Grand Forks, North Dakota
Irwin, Sidna Ferne	SS		* † Beason
Irwin, Howard Emsley	AE	22½	* † Quincy
Isenhardt, Laurence Francis	LAS	5½	* † Mt. Carroll
Isobe, Seichi	ME	64½	* † Osaka, Japan
Ito, Takeshi	AE sp		* † Suwagun, Japan
Iungerich, Viola	LAS	54	* † Champaign
Iverson, Alvin Edward	AE		* † Chicago
Ives, William Homer	Agr		* † Byron
Iwig, Howard Philip	Bus (SS)	95½	* † Peoria
Izzard, Arthur John	CE		* † Independence, Missouri
Izzard, Wesley Sherman	Jnl		* † Independence, Missouri
Jack, Elmer Simmons	Agr	36	* † Wadsworth
Jack, John Marshall	CE	35½	* † Wadsworth
Jack, Madeline Sarah	HELAS	23	* † Beaucaup
Jack, Morris Stanley	Agr		* † Wadsworth
Jack, William Ralston	Arch (SS)	28½	* † Springfield
Jackson, Andrew Stokes	LAS (SS)	63½	* † Champaign
Jackson, Clifford Lawrence	EE (SS)	28	* † Berwyn
Jackson, Ernest Theodore	SS	70	* † Odin
Jackson, Harvey Edgar	ChE		* † East Chicago, Indiana
Jackson, Hobart Harry	CE (SS)	107½	* † Kenney

Jackson, Opal Louise	LAS		• † Decatur
Jackson, Paul Edward	Bus		• † South Bend, Indiana
Jackson, Ralph William	Ed (SS)	72	• † Urbana
Jackson, Russell Raymond	EE		• † Findley
Jackson, Thomas Henry, B.S., 1918	SS	128	• † Champaign
Jackson, Walter Henry	CE		• † Toulon
Jacobs, Charles Dana	MinE (SS)	36	• † West Frankfort
Jacobs, Donald Lee	ME	72½	• † Trioli
Jacobs, Maurice Everett	Law sp		• † Sharon, Wisconsin
Jacobs, Samuel Dana	Bus		• † Chicago
Jacobsen, Ivan Porter	IndA	30½	• † Brocton
Jacobson, Carl Clifford	ME	34½	• † Chicago
Jaicks, Stanley Harry	LAS sp	8	• † River Forest
Jakubowski, Stanley Anton	ME	109	• † Chicago
James, Sybil Juanita	LAS	54½	• † Mansfield
Jamieson, Ethel	LAS	31	• † New York, New York
Jamieson, David Newton	LAS (SS)	39	• † Burlington, Iowa
Janata, Anton James	LAS	109½	• † DeKalb
Janes, Nellie Christeen	LAS	73	• † Kewanee
Janowitz, Louis Herbert	ME	31½	• † Pantegon
Jansen, James Nathan	Arch		• † Pekin
Jansen, Ruth Evelyn	LAS sp		• † Kankakee
Janssen, Julius Ingwer	Agr	16	• † Sterling
Jansson, Martin Ernest	CE	5	• † Winnetka
Janz, Arthur William	IndA	21½	• † Peru
Jardine, Ray	EE		• † Jolley, Iowa
Jarrett, Harry William	Voc vsþ		• † Roby
Jasperson, Clarence Philip	Bus	59	• † Topeka, Kansas
Jay, Eula Wright	SS	9	• † Olivet
Jeffers, John Dewey	Arch	18½	• † Oklahoma City, Oklahoma
Jeffery, Richard Werner	Agr	68½	• † Washington
Jeffries, John H	Law	16	• † Lerma
Jenkins, Carter	CE	114	• † Emmet, Arkansas
Jenkins, Lyman Hall	MedP	56½	• † Carthage
Jenner, Henry Harlan	Agr		• † Pocahontas
Jennett, Harold Patrick	EE	94½	• † Streator
Jennings, Forrest Harmon	LG		• † Mason City, Iowa
Jensen, Joseph E	Bus		• † Mokena
Jensen, Myrtle Ruth	LAS	99	• † Chicago
Jensen, Siegert Amanuial	ME		• † Dwight
Jessen, Paul	Agr		• † Alto Pass
Jessen, Virgil Tvilstedgaard	Agr	50½	• † Alto Pass
Jewell, Lura Marian	LAS (SS)	63½	• † Colorado Springs, Colorado
Jewell, Marshall Verity	Agr		• † Chicago
Jewell, Minna Ernestine, A.B., 1914, A.M., 1915, Ph.D., 1918	SS		• † Colorado Springs, Colorado
Jewett, Joseph Eugene	CE	8	• † Nianqua, Missouri
Jimenez, Joseph I	ME sp		• † Panama City, Panama
Jirka, Frank Joseph	EE	73½	• † Chicago
Jobim, Labieno So	Agr sp (SS)	4	• † New York, New York
Jobst, Chester Albert	LawP		• † Chicago
Jochim, Howard William	ME		• † Park Ridge
Jockisch, Rudolph George	Bus		• † Beardstown
Joffe, Morris	ChE	9	• † Chicago
Johansen, Fred Emil	AE	92½	• † Chicago
Johns, Harold Byron	ChE	34½	• † Oak Park
Johns, Harry Alfred, Jr.	EE	8	• † Kankakee
Johns, Harry Corwin	LAS	10½	• † Ellery
Johns, Jesse Ray	Chem	68½	• † Rockford
Johnsen, Hans Christian	CE	59½	• † Chicago
Johnson, Andrew Grantlin	Voc vsþ (SS)	15½	• † Jacksonville, Florida
Johnson, Archie	Agr	76½	• † Mattoon
Johnson, Armer Clark	LAS	62½	• † Rockford
Johnson, Arno Charles	EE	68½	• † Donnan
Johnson, Arthur	Arch		• † Marshall
Johnson, Berenice Jeanette	HELAS	30½	• † Bishop Hill
Johnson, Bessie Margaret, A.B., 1917	Lib		• † Warsaw
Johnson, Bruce Ward	IndA	45½	• † Rockford
Johnson, Carl Lester	LawP		• † Mt. Vernon
Johnson, Carl Wilhelm	Ins	74	• † Batavia
Johnson, Charles Bayard	Bus	57½	• † Rockford
Johnson, Clara Loys	Jnl		• † Chicago
Johnson, Claude Francis	ME	37½	• † South Haven, Michigan
Johnson, Cleora Eleanor	HEAgr	97½	• † St. Charles
Johnson, Clinton Goodloe	LG	22	• † Danville
Johnson, Dewey Woodruff	CE	35½	• † Marshall
Johnson, Ebba Naomi	LAS	46	• † Chicago
Johnson, Edzar Jerome	Bus	38	• † Orion
Johnson, Edward Norman	Voc vsþ		• † Galesburg
Johnson, Edwin Reynolds	Bus	104	• † Springfield
Johnson, Elmer Albert	CE	38½	• † Rock Island
Johnson, Elmer Thomas	Bus	64½	• † Rockford
Johnson, Ernest Clayton, Jr.	ME		• † Chicago
Johnson, Ethan Allen	ME	54½	• † Kankakee
Johnson, Everett Louie	Agr	66	• † St. Charles
Johnson, Fay Warren	Law	8	• † Sidney

Johnson, George Henry	CE		*	Gibson City
Johnson, Harold Urban	Accy (SS)	71½	†	Bloomington
Johnson, Harry Benjamin	ME	4	†	Topeka, Kansas
Johnson, Harry Edward	ME	67	†	Omaha, Nebraska
Johnson, Helen Currie	LAS	5½	†	Oak Park
Johnson, Hjalmar William	MinE	54½	†	Joliet
Johnson, Howard Reynold	MedP (SS)	37½	†	Bishop Hall
Johnson, Irma Naomi	LAS		†	Orion
Johnson, James Glynn	Bus	15½	†	Champaign
Johnson, John	Bus		†	Mt. Vernon
Johnson, John Robert, B.S., 1919	SS	125	†	Decatur
Johnson, Joseph Benjamin	Agr	101	†	Harrisburg
Johnson, Julia Marie	Bus (SS)	70	†	Urbana
Johnson, Leland Taylor	LAS		†	Urbana
Johnson, Le Roy William	Jnl	8	†	Chicago
Johnson, Lowell Norman	Bus (SS)	16	†	Moline
Johnson, Mildred	HELAS	93½	†	Danville
Johnson, Neil Rudolph	Agr		†	Altona
Johnson, Otis Floyd	Arch	67	†	West Point, Indiana
Johnson, Paul La Forest	REE	41	†	Wichita, Kansas
Johnson, Paul Oliver	LAS	75	†	Springfield
Johnson, Philip Leonard	Bus	16½	†	Danville
Johnson, Ralph Benjamin	ME	112	†	Joliet
Johnson, Ralph N	LG	73	†	Knoxville
Johnson, Raymond Cornelius	Bus		†	Chicago
Johnson, Reinhold Enoch	MedP	7½	†	Chicago
Johnson, Russell Henderson, B.S., 1919	SS	130½	†	Danville
Johnson, Russell Harold	ME	34	†	Moline
Johnson, Theodore	Chem		†	Wichita, Kansas
Johnson, Thomas Peirce	LAS		†	Homer
Johnson, Walter Lane	Agr	30½	†	Assumption
Johnson, Walter Ryerson	Chem		†	Divernon
Johnson, William Frederick, Jr.	Bus (SS)	29½	†	Maltoon
Johnson, William Moss	Accy	25½	†	Mounds
Johnston, Archie Elmer	ME		†	Tuscola
Johnston, Clarence Lee	Agr	41	†	Champaign
Johnston, Clarence Melville	Agr	75	†	Warsaw
Johnston, George	Bus	6	†	Covington, Louisiana
Johnston, Hazen Henry	CCS	66	†	Fort Wayne, Indiana
Johnston, Lillian Ruth, A.B., 1918	SS	132½	†	Champaign
Johnston, Margaret Adeline	LAS	6½	†	Alton
Johnston, Robert Jordan	Agr	31½	†	Pontiac
Johnston, Vernon Thomas	Bus	8	†	Champaign
Joiner, Neita Marie	Bus		†	Polo
Jolly, Meta Georgia	LAS	26	†	Champaign
Jones, Arthur Pembroke	MedP	61	†	Bradford
Jones, Arthur Sherwood	Agr	2	†	Tuscola
Jones, Asa William Peter	Agr	28	†	Monmouth
Jones, Benjamin Milton	Agr		†	Humboldt, Kansas
Jones, Bernice Lynn Fishback	LAS	98½	†	Urbana
Jones, Bertha Marie, A.B., 1911	SS	144½	†	Champaign
Jones, Carl Delmar	FOM	8	†	Midland City
Jones, Charles Edward, Jr.	SS	8	†	Galesburg
Jones, Delmar Lee	Agr		†	Bloomington
Jones, Elbert Kepler	Chem		†	Kenilworth
Jones, Elizabeth Sophia	Ed	63	†	Raymond
Jones, Florence Dorothea	LAS (SS)	101½	†	Raymond
Jones, Frances Beulah, B.S., 1917	SS	134½	†	Champaign
Jones, George Orville	Chem	18	†	Loraine
Jones, Gomer Beane	LAS		†	Egan
Jones, Helen Beatrice	LAS	29½	†	Champaign
Jones, Helen Riggan	LAS		†	Athens
Jones, Henrietta Luke	LAS		†	Vincennes, Indiana
Jones, Herbert Richard	ME		†	East Chicago, Indiana
Jones, Howard Jacob	Agr sp		†	Sidney
Jones, Howard Lewis	EE	8	†	Sidell
Jones, Leslie Nancy	LawP	8	†	Evanston
Jones, Leanora Gertrude	SS	15½	†	Rose Hill
Jones, Llewellyn	EE	8	†	Vici, Okla.
Jones, Marjorie Ann	LAS	94	†	St. Louis, Missouri
Jones, Mary Emily	LAS	36	†	Amboy
Jones, Maurice Leigh	LAS	15½	†	Johnston City
Jones, Ralph Coughenour	LAS	34	†	Fairfield
Jones, Robert Moore	Agr	1	†	Wilmette
Jones, Robert Taylor, B.S., 1912	Mus sp	154	†	Urbana
Jones, Stanley Gordon	EE		†	Carlinville
Jones, Valentine Austin	Chem	75½	†	Buffalo, New York
Jones, Vera Elizabeth	LAS	61½	†	Monmouth
Jones, Vera Gretchen	LAS	78	†	Urbana
Jones, Vernie Allen	SS	10	†	Willow Hill
Jones, Vivian Myfanwy	SS	71	†	Aurora
Jones, Walter Spencer	ME		†	Chicago
Jones, William Joseph, B.S., 1919	SS	131½	†	Elgin
Jones, William Robert	Agr (SS)	114	†	Kirkland
Jordan, Byron Henry	Bus	28	†	Elkhart, Indiana
Jordan, Donald Voorhees	Jnl	26½	†	Minneapolis, Minnesota

Jordan, Emily Kathryn	LAS	109½	* † Carlinville
Jordan, Mrs. Grace Brandon	SS	1½	* † Champaign
Jordan, Harold Emery	Bus	49½	* † Chicago
Jordan, Jerome Joseph	Bus	8	* † Clinton
Jordan, John William	MedP	2½	* † Wapella
Jordan, Marvin Guy	EE sp	8	* † Mazon
Jordan, Mary Madeline	Accy		* † Sioux City, Iowa
Jordan, May Etta	SS		* † St. Charles
Jordan, Roy Vail	SS	122½	* † Champaign
Jorstad, Louis Helmar	SS	72½	* † Morris
Joseph, Glenn Howe	ChE	32½	* † Tuscola
Joseph, Lawrence Herz	Bus	18½	* † Terre Haute, Indiana
Josler, Edmund Barr	ME		* † Chicago
Joy, Charles Higgins	Agr	10½	* † Chapin
Joy, Vera Irene	LAS		* † Centralia
Joyner, Louise	LAS		* † Harrisburg
Judy, Viola Elizabeth	LAS	32½	* † Potomac
Julian, Scott Millholland	FOM	100	* † Peoria
Juline, Carl	AE	95½	* † Des Moines, Iowa
Jungk, Irene Theodora	LAS		* † Chicago
Jungmann, Harold Leon	Chem		* † St. Louis, Missouri
Jurgens, Johanas John	LAS		* † Savanna
Juric, Joseph Peter	IndA	15½	* † Riverside
Jury, Harold Brintnel	Bus	8	* † Washburn
Justus, Paul Kilbride	Agr	58	* † Ipava
Kadyk, David James	Law	20	* † Fullon
Kadyk, John Claudius	Bus	31	* † Fullon
Kaemper, Ernest Fred	ME		* † East St. Louis
Kagy, Leigh Monroe	LawP	34	* † Salem
Kahle, Estelle Dorothy	SS	7½	* † Carlinville
Kaiser, Edward William	Bus	12½	* † Chicago
Kaiser, Herbert Harlan	Bus		* † Monticello
Kaiser, Paul William	Ath	48	* † Chicago
Kallas, James George	Agr	32½	* † Chicago
Kallis, Edward Everett	Agr		* † West Chicago
Kalver, Roy Lawrence	LAS	60½	* † Decatur, Indiana
Kamm, Leonie	SS	4	* † Highland
Kammermann, Clarence	Law		* † Forrest
Kammermann, Hermina	LAS	74½	* † Forrest
Kane, John, Jr.	Agr sp	8	* † Champaign
Kane, John Edward Clement	Bus	9½	* † Chatsworth
Kaney, John Henry	Agr	67½	* † Forrester
Kanter, Harry Howard	Bus		* † Chicago
Kantrowitz, Hilbert Herbert	CerE	2	* † Chicago
Kao, Chun Tai	LAS		* † Tientsin, China
Karlin, Isaac	SS	60½	* † Russia
Karnahan, Hazel Clare	HELAS		* † Carlinville
Karrer, Roselle Mae	LAS	19½	* † Seattle, Washington
Kartman, Benjamin	Jnl		* † Chicago
Katanik, Isadore	EE	34½	* † Indianapolis, Indiana
Katz, Moses Morris	Chem	97½	* † Denver, Colorado
Kaufman, Elmer Bert	Agr		* † Lena
Kaufman, Samuel	Jnl	22	* † Bayonne, New Jersey
Kaufman, Stanley Louis	SS		* † Champaign
Keach, Vernice Eva	HELAS		* † Casey
Keatts, Bernerd Dewey	CE	60	* † Decatur
Kebbon, Richard Arthur	Bus	2½	* † Chicago
Keck, Charles Everett	Law	28	* † Champaign
Keck, George Fred	AE	122½	* † Watertown, Wisconsin
Keefe, James Edward	LAS		* † Peoria
Keefe, Laura Belle	LAS	62	* † Sterling
Keehner, Ada	LAS		* † Jerseyville
Keen, Gladstone	Voc vsP		* † Fairfield
Keener, Clarence Barnhart	Accy	105	* † Jerseyville
Keeler, Otis	SS	8	* † Brownstown
Keeler, Theodosia Julia	LAS		* † Earlville
Keen, Clyde	LAS	25½	* † Champaign
Keen, John Paul	CE	8	* † Champaign
Keepers, Floyd Willard	Agr	116	* † Mazon
Keepers, Lloyd William	Agr	118	* † Mazon
Keevil, Charles Ezra	REE	70½	* † Kansas City, Missouri
Keigwin, James Robert	FOM	22½	* † Walnut
Keir, William Ralph	Arch		* † Joliet
Keister, Arthur Milton	Law	3½	* † Rockford
Keister, Harold Thomas	Bus		* † Freeport
Keith, Nina	LAS	57½	* † Urbana
Keith, Stuart William	Bus	30½	* † Peoria
Kell, Ray Davies	Agr		* † Maywood
Keller, George Ernest	ChE	34½	* † Jonesboro
Kelley, George Noel	ME		* † Quincy
Kelley, Harry William	Bus	22½	* † Glen Ellyn
Kelley, Harvey Theodore	EE	5½	* † Chicago
Kelley, Herschel William	Bus		* † Marion
Kelley, Paul Sinclair	Bus		* † Raub, Indiana
Keillogg, Laurence Otis	Agr		* † Chicago
Kelly, Charles Holland	IndA	36	* † Bryan, Ohio



Kelly, Inez Juanita	HELAS	67½	• † Greenup
Kelly, Joseph Sherman	ForC	36	• † Watsika
Kelly, Margaret Katherine	Bus		• † Oak Park
Kelly, Paul Brown	Bus	69	• † Mattoon
Kelsey, Willard Wahl	ForC (SS)	69	• † Sterling
Kelsheimer, Eugene Gillespy	Agr		• † Paris
Kemler, Robert Lynch	EE	85½	• † Elgin
Kemp, Charles Delbert	Agr (SS)	98½	• † Waynetown, Indiana
Kemp, Dewey Walter	Bus	8	• † Oskaloosa, Iowa
Kemp, Emery Leland	AE	30	• † Waynetown, Indiana
Kemp, Katharine	LAS	27½	• † Paxton
Kendall, Forrest Everett	Chem (SS)	75	• † Victoria
Kenda'l, Irene	LAS		• † Metcalf
Kendall, Richard George	EE		• † Chicago
Keniston, Earl Goodsell	Agr		• † Manhattan
Kennedy, Dorothy Bernice	HELAS		• † Champaign
Kennedy, Elizabeth Sara	Bus		• † Sterling
Kennedy, Ellen Hannah	SS	55	• † Pana
Kennedy, Emily Jane	LAS	106½	• † Morrison
Kennedy, Fraak Alen	Agr		• † Champaign
Kennedy, George Raymond	Bus	8	• † Chicago
Kennedy, Gladys Jones	Mus		• † Morrison
Kennedy, John Louis	Ath		• † Lewistown
Kennedy, Paul Joseph	MinE		• † Templeton, Indiana
Kennedy, Pauline Marian	HELAS	50	• † Champaign
Kennedy, Thomas Eugene	Bus (SS)	98	• † Aurora
Kennedy, William Harvey	LAS	21½	• † Lacon
Kennelley, Griffith Sidney	CerE	134½	• † Joliet
Kenney, Henry Fletcher	LG	23	• † Nicholasville, Kentucky
Kenney, John Harvey	C & L	2½	• † Kenney
Kenney, Mahlon Wesley	EE		• † Loda
Kenney, Mrs. Pearl Craven	HEAgr	10½	• † Sumner
Kenney, Wendell Lyons	EE	109	• † Champaign
Kenny, Herbert Miner	Bus	29½	• † Champaign
Kent, Noah Daniel	Agr	8	• † Franklin, Nebraska
Kent, Paul Fraser	CE	129½	• † Gridley
Kent, Richard Eugene	Mus	66	• † Champaign
Kent, Walter	Agr		• † Clinton
Kenyon, Allan Tittsworth	MedP	36½	• † Anna
Kerchner, Delbert Harlow	LAS		• † Freeport
Kerchner, Emil Lorenzo	LAS (SS)	92½	• † Freeport
Kerchner, Russell Marion	EE	35½	• † Belleville
Kern, Dorothea Estell	LG	32	• † Champaign
Kern, Orva Lucille	LAS		• † Washington
Kerns, Arthur David	EE	40	• † Taylorville
Kerns, Charles Maris, Jr.	Bus	34	• † Moline
Kerns, Edward Lincoln	C & L	22	• † Moline
Kerr, Louis Bartlett	ME		• † Champaign
Kerr, Ralph	FOM	64½	• † Urbana
Kerrins, Joseph Arthur	Accy	33	• † Chatsworth
Kershaw, Glenwood Haigh	ME	79	• † Kankakee
Kerst, Earl Louis	EE		• † Dixon
Kertis, Emmeline Elizabeth	LAS	22½	• † South Bend, Indiana
Kesling, Harold Deane	LAS		• † Onward, Indiana
Kessler, Walter Burnell	ME		• † Fairbury
Kettelhut, William Herman	EE	71	• † South Haven, Michigan
Kettory, Joe	SS		• † Greenfield, Indiana
Ketzler, Adolph Carl	Bus	34½	• † Chicago
Keys, Louesa Jane, B.S., 1911	LAS irr		• † Urbana
Kihler, Clarence Troit	Agr (SS)	67	• † Streator
Kidd, Lilace Mazoe	LAS	119½	• † Astoria
Kidd, Lorimer Barbee	Jnl		• † Morrison
Kiehn, Robert Arthur	EE		• † Chicago
Kiest, Herschel Orville	Agr		• † Lincoln
Kiesling, Jessie Faye	LAS	60	• † Atlanta
Kilbride, Edward Robert	Agr	79	• † Springfield
Kile, Lucille Faustine	LAS	29½	• † Iresdale
Killeter, Miriam Elizabeth	HELAS		• † Mattoon
Killeter, Raymond Colonius	Chem	67	• † Mattoon
Kilpatrick, George Harrington	Bus	43	• † Fairfield, Iowa
Kilpatrick, Ralph Sidney	Bus	86	• † Elmwood
Kimble, Glenn	Bus sp	8	• † Mahomet
Kimman, John William	Agr	110	• † Chicago
Kimmelshue, Florence Ada	HELAS	59½	• † Manteno
Kimmelshue, William Maurice	Agr	81	• † Manteno
Kindstrom, Melvin Gustar	ChE	8	• † Lead, South Dakota
King, Ameda Ruth	LAS	54	• † White Hall
King, Burton Eldred	Agr	62	• † Plymouth
King, Florence Mary	HEAgr	72	• † Henry
King, Francis Richard	Agr		• † Rochelle
King, Leo Francis	Bus	29	• † Indianapolis, Indiana
King, Marcus Randolph	CE		• † Chicago
King, Philip Gregory	EE	59	• † Glencoe
King, Vincent Paul	LG	104	• † Indianapolis, Indiana
King, Walter Bernard	ChE		• † Ewing
Kingery, Otis Minor	Agr		• † Toledo

Kingsbury, George Hunt	Bus (SS)	45½	* † Indianapolis, Indiana
Kinhofer, Garma Genevieve	LAS		* † Metamora
Kinhead, William Sparkling	ME		* † Chicago
Kinnane, Arthur John	LawP		* † Champaign
Kinnane, Charles Herman Thomas	LAS	41	* † Champaign
Kinnare, Robert Edward	ME	84	* † Chicago
Kinney, Percy Le Roy	Aggr	97½	* † Galesburg
Kinney, Ronald Eugene	ForC	9½	* † Kansas City, Missouri
Kinsella, John Jules	Aggr sp		* † Urbana
Kinsey, Esther Eloise	LAS (SS)	90½	* † Champaign
Kinsey, William Putnam	ME	14	* † St. Louis, Missouri
Kinson, Earl Francis	EE		* † Williamsfield
Kinsworthy, Senn Wall	EE	8	* † Tucker, Arkansas
Kiram, Taniata	Mus sp		* † Jolo, Sulu, Philippine Islands
Kirby, James Frank	Aggr	18½	* † Rochelle
Kirby, Lucian Charles	Bus		* † Steward
Kirby, Nelle Almeda	Mus (SS)	83½	* † Eureka
Kirby, Warren Lyons	IndA	56½	* † Hull
Kirchhofer, Emma Esther	CCS	104½	* † Kansas City, Missouri
Kirk, Alma Lucille	LAS		* † Lyons, Indiana
Kirk, Carl Lemmen	LAS	2	* † Chicago
Kirk, Esther Oneita	HELAS (SS)	96	* † Edinburg
Kirk, Susie Mary	SS	4½	* † Quincy
Kirkpatrick, Elsie Virginia	LAS	34½	* † Urbana
Kirkpatrick, Frank Burke	Bus	24	* † Tiskilwa
Kirkpatrick, Harry Lanes, A.B., 1919	SS	130	* † Des Moines, Iowa
Kirkpatrick, Jesse Bertram	Ath sp		* † Champaign
Kirkpatrick, Thomas Everett	Aggr	99	* † Clayton
Kirkpatrick, Vera Lucille	LAS	21½	* † St. Joseph
Kirkpatrick, Vivian Maurine	HEAggr		* † West Chicago
Kirkton, Isabella Jane	SS		* † Gridley
Kirkwood, Glenn Martin	ME		* † Lawrenceville
Kirsten, Margaret	Bus	28½	* † Paris
Kissinger, Clarence Andrew	Arch	22½	* † Olney
Kissinger, Donald Kenneth	Bus	75	* † Bradford
Kistner, Rosina Clara	HELAS		* † Indianapolis, Indiana
Kitch, Stanley Billings	ME	34½	* † Berwyn
Kitchell, Nannie Maree	LAS	90	* † Morrisville
Kittinger, Ellen Louise	Bus	63½	* † Alton
Kizer, Zeniar	LAS	95½	* † Mattoon
Klamser, Harry William	Aggr	65	* † Aurora
Klaproth, Norma Thomas	EE	4	* † Chicago
Klaproth, William Otto	EE	36½	* † Chicago
Klawkoske, Anthony Joseph	EE	20½	* † Chicago
Kleckner, George Malburn	Bus	93½	* † Freeport
Kleder, George Madison, Jr.	Bus	60½	* † Marion, Indiana
Klein, Gordon	CerE	100	* † Urbana
Klein, John Alfred	Aggr		* † Blue Island
Klein, Joseph Mathais	MedP	55	* † Pana
Klein, Mentor Mayer	Bus		* † Chicago
Klein, Nancie, A.B., 1917	SS	131½	* † Urbana
Klenk, Frederick	MSE	116½	* † Philadelphia
Klenze, Delmar Charles Henry	Accy	36½	* † Chicago
Klerymeyer, Ralph Theodore	CerE	11	* † Evansville, Indiana
Klinckmann, Erwin Christian	ChE	67	* † Chicago
Kline, Laurence Everette	Bus	30	* † Chicago
Kling, Carl Lawrence	CerE (SS)	117½	* † Dixon
Klingberg, William Joseph	ME	34½	* † Spring Valley
Klipfel, Bertha Madelaine	SS	6½	* † East St. Louis
Klopper, Victor Ferdinand	ChE	32	* † St. Louis, Missouri
Klopp, Leanna Ruth	SS		* † Rock Grove
Klotzsche, Eunice Esther	SS	33	* † Urbana
Klutas, John Edward	Bus		* † Sterling
Knapheide, Merle Douglas	MedP	46½	* † Quincy
Knapheide, Mildred Carey	LAS	96½	* † Quincy
Knapp, Claire Webb	Bus		* † Champaign
Knapp, Vera	HELAS	2	* † Ashton
Knapp, Vernon	Bus	20½	* † Ashton
Knauer, Harley Lillard	ChE	33½	* † DuQuoin
Kneer, Greta Lucille	HELAS		* † Laura
Kneier, Charles Mayard	LawP	35½	* † Keyesport
Knight, Frank Burrows	ME	28	* † Highland Park
Knight, Galen Victor	Law	13½	* † Urbana
Knight, Hubert Willard	EE	41	* † Somonauk
Knight, John Richard Watrous	Bus	18	* † Evanston
Knipp, Pauline Louise	LAS (SS)	40	* † Urbana
Knoblauch, Morris William	EE		* † Metamora
Knoll, Leon Charles	CE	8	* † Chicago
Knollin, Ernesto Ray, A.B., 1914	Ath irr (SS)		* † Hayward, California
Knopf, Leonard Henry	Bus	8	* † Maywood
Knowlton, Grace Philis	HEAggr (SS)		* † Chicago
Knox, Walter Andrew	Aggr	4	* † Morrison
Knudson, Percy Martin	Bus		* † Farmingdale
Kobayashi, Toshiyuki	Bank	94	* † Tokyo, Japan
Koch, Elmer Cornelius	Bus	20½	* † Alton
Koch, Everett William	Aggr		* † Warsaw

Koch, Florence Guthrie	Mus (SS)		* † U bana
Koch, George Washington	Bus	88½	* † Davenport, Iowa
Koch, Stella Minetta	Mus		* † Little Rock, Arkansas
Koch, William Mortimer, Jr.	Agr		* † Varna
Kocour, Cyril Joseph	ChE	21½	* † Chicago
Koehler, Oscar Henry	EE	74½	* † Chicago
Koehmstedt, Victor Joseph	Bus		* † Minto, North Dakota
Koehne, Peery Patterson	Bus	4	* † Chicago
Koelsch, Theodore Martin	Bus		* † Quincy
Koenig, Karl Frederick	ChE	32	* † Alton
Koepke, Frank Henry Paul	ME	108½	* † Chicago
Koepke, Herman Frank	CE	125	* † Chicago
Koeppe, Charles Stronovan	Agr		* † Chicago
Koerfer, Paul Edward	EE	7½	* † Aurora
Koerner, Charles Albert	ME		* † Chalsworth
Koerner, Luella May	HELAS		* † Freeport
Koerner, Theodore George, Jr.	Bus	35½	* † Park Ridge
Kohin, Raymond	Bus		* † LaSalle
Kohl, Aurelia Rose	LAS		* † Belleville
Kohl, Frederick Andrew	Bus		* † Venice
Kohler, Clarence Edward	Bus	60½	* † DeKalb
Kohler, Gerald Elmer	MedP	93	* † Chalsworth
Kohn, Stella Melita	LAS	51½	* † Chicago
Kohn, Walter Clarence Albert	Bus	57½	* † Chicago
Kohner, Edwin Martin	Bus	83½	* † Chicago
Kohout, Jerre	Flor		* † Chicago
Kolben, Henry	ME		* † Chicago
Kolhatkar, Murlidhar Digamber	EE		* † Chanda, India
Kolmer, Albert Conrad	Agr	65	* † Waterloo
Kolmer, Oliver Ernst	Agr	2	* † Waterloo
Komrosky, Morris Louis	Arch	107	* † Gary, Indiana
Kopman, Emil Robert	LawP	8	* † Chicago
Kopp, William Kenneth	Bus	85	* † Chicago
Kopple, Abraham Louis	ChE	8	* † Dubuque, Iowa
Korpinen, Lauri Ilmari	ForC	10½	* † Abo, Finland
Kotecki, Barney	Voc vsþ		* † Granville
Kough, Earl Hurst	Bus	20	* † Blue Island
Koukalik, Charles	Voc vsþ		* † Chicago
Koupal, Elsa Emily	LAS	38	* † Crown Point, Indiana
Koupal, Helen Marie	LAS	32	* † Crown Point, Indiana
Koupal, Walter George	Chem (SS)	126	* † Crown Point, Indiana
Kovacs, William George	CE		* † Hammond, Indiana
Kral, Albert Alva, Jr.	EE	85	* † Chicago
Kramer, Charles Henry	ME (SS)	110½	* † Alton
Kramer, Erwin Albert	Chem	44½	* † Chicago
Kramer, Max William	Law	42	* † East St. Louis
Krause, Arthur John	Bus		* † Indianapolis, Indiana
Krause, Elmer George	EE	34½	* † Belleville
Krauskopf, Sherry Bowen	Agr	8	* † Maywood
Krauthelm, William Charles	ME	4	* † Granite City
Krekler, Robert Hunn	Chem		* † Clinton, Indiana
Krekler, William Henry	LG	2	* † Clinton, Indiana
Krelstein, Bernard Sydney	Law		* † Chicago
Krenz, Edgar John	EE		* † Chicago
Krenz, Elsa Louise	LAS	98½	* † Chicago
Krenz, Mathilde Hannah	Bus		* † Chicago
Kretchmer, Clarence Martin	Bus	38½	* † Chicago
Krieg, Amelia, A.B., 1917	Lib	48½	* † Riverside
Krieg, Arthur Walter	AE		* † Riverside
Krieger, William Enoch	Bus	109½	* † Peoria
Krone, Max Thomas	ME		* † Bryan, Ohio
Kronlund, Florence Judith	SS		* † Ironwood, Michigan
Krows, Paul Martin	Agr		* † Arcola
Krueger, Clifford William	Bus	2½	* † Elgin
Krueger, David Eugene	EE	5	* † Chicago
Krueger, Gerald August	Agr	32	* † Chicago
Krueger, Howard Andrew	ME	61	* † Blue Island
Krueger, Paul Frederick	Agr		* † Chicago
Kruger, Theodore	ME	111½	* † Peoria
Krumsieg, Raymond George John	EE		* † Chicago
Krumsiek, Alfred Erlan	LAS		* † Nashville
Krupka, George Frank	Bus	60½	* † Chicago
Kruse, Charles Edward	Agr		* † Richmond
Kruse, Waldemar Carl	LawP		* † Champaign
Kuch, Mildred Carolyn	LAS (SS)	94½	* † Clinton
Kuebler, Genevieve Fay	LAS	4½	* † Mt. Vernon, Iowa
Kuechler, Charles Edward	SS		* † Rushville
Kuehl, Edwin Christ	CE	38½	* † Davenport, Iowa
Kuehne, Carl William	Chem	35½	* † Chicago
Kugler, Martha	HELAS	87½	* † Plano
Kugler, Ruth	ComT		* † Plano
Kuhl, George Harris	EngPh	8	* † Chicago
Kuhl, Melvin Henry	ME		* † Chicago
Kuhle, Orlando Augustus	LawP		* † Assumption
Kuhn, Carolyn Sturm	Bus	4	* † Champaign
Kuhr, Raymond	Bus		* † Brazil, Indiana

Kukuk, Harold Darlin	EE	8	• † Earlville
Kukuk, Ronald	Agr		• † Earlville
Kumler, John Mathew	Agr	62	• † Bloomington
Kupperman, Bernard	Chem sp (SS)	29	• † Chicago
Kustermann, Edward William	Voc vsp		• † Highland
Kustner, Carl Gerding	ME	6	• † Chicago
Kwong, Fred Gumming	EE		• † Hongkong, China
Kyger, Roy Jay	SS	90½	• † Danville
Kyle, Anna	SS	8½	• † Havana
Kyndberg, Albert Walter	Bus		• † Waukegan
Laadt, George Anton	ChE		• † Chicago
Laatz, Ernest Charles	Agr	39	• † Marseilles
Labahn, Alfred Henry	LawP		• † Algonquin
La Bahn, Paul Otto	MedP	30	• † Chicago
La Bier, Clarence Russell	MedP	101½	• † Terre Haute, Indiana
Lackey, Kenneth Leo	Arch		• † Plymouth, Indiana
Lacy, Isham Laurence	MedP	7½	• † Chicago
Lacy, Reginald Ross	MinE	2	• † Herrin
Ladd, Dwight John	MedP		• † Arlington
Lafferty, George Gustavus	SS	44½	• † Burgess
Lafferty, Thomas Wheeler	Agr		• † Galesburg
Lafuze, Donald Frazier	Law	6	• † Liberty, Indiana
Lager, Eric Willard	ME	90	• † Chicago
Lahiri, Sambhunath	RA		• † Bengal, India
Lai, Lien	ME		• † Changsha, China
Laible, Russell James	Agr	113	• † Freeport
Lake, William Paul	IndA		• † Easton, Pennsylvania
Lambert, Kathryn Mary	LAS	30	• † Arthur
Lambert, Kenneth Coghlan	CerE		• † Maywood
Lambert, Robert Wayne	Agr	66	• † Rushville
Lamme, Elizabeth Ann, A.B., 1919	SS	130	• † Hiawatha, Kansas
Lampe, Herman Ernest	Agr	20½	• † Venice
Lampert, Esther Nelson	HELAS		• † Forest Park
Lampert, Florian, Jr.	AE	113	• † Oshkosh, Wisconsin
Lampert, Max	LAS	68	• † Forest Park
Lampont, Leonard Rollings	CE	58½	• † Chicago
Lancaster, Laura Louise	LAS	24	• † Maywood
Land, Clyde Err	Agr	109	• † Greenfield
Landhy, Irwin Theodore	EE	37½	• † Chicago
Lane, Francis Bowman	Bus	8	• † Chicago
Lane, Howard	LAS	30½	• † Clinton
Lane, Lewis R	Agr		• † Havana
Lang, Alvin Leonard	Agr	104	• † Urbana
Lang, Thomas	Bus		• † Champaign
Lang, Walter Edward	ME	61	• † St. Louis, Missouri
Langdon, Paul Eugene	CE	108½	• † Chicago
Langerman, Philip Milton	Bus		• † Chicago
Lanning, Thomas Floyd	Bus		• † Chicago
Lanning, Alfred Stephens	Bus	56½	• † Richmond, Indiana
Lantz, Ludwig Andrew	CE	10½	• † Keokuk, Iowa
Lantz, Maurine Estelle	HELAS	91½	• † Congerville
Larimer, Floyd Conway	Bus	73½	• † Oskaloosa, Iowa
Larry, Etta Cynthia	HEAgr	18	• † Champaign
Larry, Roy Nicholas	Agr		• † Champaign
Larsen, Harold Theodore	CE ssp	8	• † New London, Connecticut
Larsen, Thyge Otto	CE	44	• † Chicago
Larson, Arthur Clarence	EE	32	• † Chicago
Larson, Edward	Chem (SS)	93	• † Galva
Larson, Gladys Evangeline	Bus	33½	• † St. Anne
Larson, Paul Filip	Chem	30½	• † Mazon
Larson, Reinhold Fridtjof	ME		• † Geneva
Lash, Clarence Roy	Agr	39	• † Big Rock
Latham, Hollis Culver	EE	35	• † Sandwich
Latham, Ora Florence	SS	8	• † Staunton
Latham, Wendell Abbott	Bus	35	• † Sandwich
Lathe, Benjamin Reuel	EE	8½	• † Lyndon
Lathrop, Charles Augustus	Voc vsp (SS)	5	• † Calhoun
Lathrop, John Sherman	CerE	64	• † Chicago
Latimer, Edward Albert	EE		• † Clare
Latowsky, Carl Rodo	ForC	20½	• † Highland
Lattin, Mary Claire	HELAS		• † Sycamore
Lau, Tak Ming	RT	3	• † Wilkinsburg, Pennsylvania
Laube, Otto Theodore	EE	80	• † Chicago
Laue, Mayme	HEAgr		• † Shumway
Laughrin, Glenn Bernard James	ME		• † Massbach
Lauterbach, Walter Wesley	LAS	63	• † Bushnell
Laux, William Edwin	ME	14½	• † Peoria
Laval, Marcelle Vere	LAS	98	• † Wilmette
Laverty, Floyd Donald	Bus		• † Elgin
Law, Rhene Berwyn	Ath		• † Savanna
Lawlor, Joseph Patrick	CE		• † Miller, South Dakota
Lawrence, James Rollin	Jnl	30½	• † Champaign
Lawrence, Leland Lamont	LAS	62	• † Champaign
Lawrence, Thomas Maurice	Bus	18½	• † Kansas City, Missouri
Lawson, Burtis Carl	Agr	93	• † Springfield
Lawson, Harold John	Bus	45	• † Kewanee

Lawton, Ruth	HELAS	21½	• † Hinsdale
Lawyer, George Harland	Agr		• † Arcola
Lazier, Harold Elmer	Agr	2	• † Rochelle
Lazier, Wilbur Arthur	Chem	33½	• † Rochelle
La Zoris, Elinor J	Agr		• † Chicago
Lea, George Dewey	ME	5½	• † Tiskitwa
Leach, Paul Howard	LAS	54½	• † Joliet
Leaman, Olga Edith	Mus sp		• † Owensboro, Kentucky
Leary, William Andrew	Bus	39	• † El Paso
Lease, Stanley Harold	Bus	18	• † Plainville
Leautier, Marie-Louise Rose	LAS		• † Digne, France
Leavitt, Maurice	Bus (SS)	60% <sub>5</sub>	• † Chicago
Le Bosquet, Maurice, Jr.	MSE	38½	• † Chicago
Lebowich, Eugene Douglas	Bus	31½	• † Oregon
Lederer, Eric Nelson	Bus	2½	• † Chicago
Ledford, Roy Merl	LAS		• † Harrisburg
Lee, Alfred Erwin	LAS	32½	• † Champaign
Lee, Arthur	Arch	131	• † Hudson, Wisconsin
Lee, Claude Ashley	RCE		• † West Chicago
Lee, Florence	HELAS	65½	• † Reynolds
Lee, Howard Ralph	ChE	31½	• † Tamaroa
Lee, Jack	Bus	30	• † Portland, Oregon
Lee, John Proctor	Agr	39½	• † Peoria
Lee, Mary	LAS	31½	• † Aledo
Lee, Olive	HELAS		• † Aledo
Lee, Omer Volney	LawP sp	18	• † Danville
Lee, Poy Kwun	CE		• † Pingnan City, China
Lee, Sherman Quentin	CerE		• † West Chicago
Lec, William Homer	ChE		• † Champaign
Leeds, Winston Bryan	Jnl	38	• † Mt. Carmel
Leeming, James Whitney	EE	84	• † Chicago
Leeming, Mason Starring	EE	50	• † Chicago
Leeper, Leland Loe	ForC		• † Memphis, Missouri
de Leeuw, Abraham	ChE		• † Chicago
de Leeuw, Philip Moritz	ChE		• † Chicago
Le Gault, Stuart Exoie	Ath		• † Pekin
Leggate, Leora Lillian	HEAgr		• † Chatsworth
Leggett, Cleo Clare	LAS		• † McComb, Mississippi
Leggitt, Frank, B.S., 1917	SS	136	• † Paragould, Arkansas
Leggon, Winston Abraham Jefferson	MedP		• † Abingdon, Virginia
Lehman, Lloyd Wilbur	Law	28½	• † Herscher
Lehman, Walter John	Bus		• † Brazil, Indiana
Lehmann, Gustav Fred, Jr.	ChE	35½	• † Chicago
von Lehsten, Arnold	CE	2½	• † St. Louis, Missouri
Leibsohn, Adele Ethel	LAS		• † Chicago
Leigh, Helen Elvira	SS	4	• † East Lynn
Leigh, Oliver Wendell Holmes	Agr		• † Sparland
Leighty, Henry Malcolm	EE	8	• † Vermont
Leitch, Neil McLean	MedP	99% <sub>5</sub>	• † Toulon
Le Master, Oscar Lloyd	LowP		• † West Frankfort
Lemenager, Earl Henry	LowP	48½	• † Ashkum
Lemenager, William Arthur	Bank	18	• † Ashkum
Lemke, Gustav Albert	SS		• † Cleveland, Ohio
Lemos, Salvador Alsina	Agr sp		• † Pelotas, Brazil
Lenane, Edward Hugh	ME	33½	• † Quincy
Lenhart, Elizabeth Catherine	LAS	9	• † Terre Haute, Indiana
Lenon, Warren E	LAS	2	• † Little Rock, Arkansas
Lent, Osa Lois	HELAS	99½	• † Chicago
Lentz, Leo Francis	Agr	59½	• † Anna
Lenz, Pauline Marie	LAS		• † Chicago
Leonard, Charles Pierson	LawP (SS)	30	• † Boonton, New Jersey
Leonard, Edward Patrick	Jnl	34	• † LaGrange
Lesemann, Ralph Frederick	LAS	70½	• † Nashville
Leslie, Mrs. Myra Frances	Mus	90½	• † Urbana
Lessing, Marion Rose	Arch	46½	• † Urbana
Lester, Rollin Harold	Agr		• † Kewanee
Lethen, Edward Frederick	Bus		• † Chicago
Lettie, Arnold Maurice	CE	8	• † Chicago
Leverenz, Gertrude	LAS		• † Danville
Leverenz, Harold T	CerE		• † Danville
Levin, Charles	ME	5	• † Chicago
Levin, Morris S	Bus		• † Monticello
Levinson, Ida	HELAS	30½	• † Paxton
Levy, Henry Kay	EE	52½	• † Chicago
Levy, Samuel Albert	Ath		• † Bayonne, New Jersey
Lewis, Alden George	Chem	71½	• † Green Bay, Wisconsin
Lewis, Ardenia Moree	HEAgr	83	• † Camp Point
Lewis, Dana Mendal	Agr		• † Camp Point
Lewis, Edwin Robert	Bus		• † Wichita, Kansas
Lewis, Franklin Spencer	Bus	30	• † Joliet
Lewis, Harold Wilcox	Bus	8	• † Quincy
Lewis, James Mandell	ME	35½	• † Wheaton
Lewis, Kenneth S	MedP	91½	• † Wheaton
Lewis, Marion Grace	LAS	32	• † Berwyn
Lewis, Martha Estine	LAS	11½	• † Des Moines, Iowa
Lewis, Mary Louise	LAS	11½	• † Des Moines, Iowa

Lewis, Preston	Bus	3	• † Stillman Valley
Lewis, Raymond Oliver	ME		• † Springfield
Lewis, Sumner Fay	Bus		• † LoGrange
Lewis, Walden Sharp	EE	8	• † Sandwich
Lewitan, Leo	ME	111½	• † Chicago
Li, Hsiang Kai	ME (SS)	50½	• † Honan, China
Liang, Soong Ling	Bus (SS)	26½	• † Shanghai, China
Libunao, Jose Bautista	RCE		• † Malolos, Philippine Islands
Lichtenberger, Cleo, B.S., 1911	Lib	39½	• † Decatur
Lichtenwalter, Clayton Gurney	Bus	32	• † Joliet
Lichtmann, Samuel Arthur	AE	80	• † Chicago
Lidschin, Max Milton	CerE		• † Chicago
Lienhard, Frank Leland	Bus		• † Slater, Missouri
Lies, Arthur Nicholas	ME	93½	• † Chicago
Lifvendahl, Richard Axel	MedP	47½	• † Chicago
Light, Mildred Elizabeth	LAS	34½	• † Leaf River
Lightbody, Ernest Loren	SS	7	• † Corning, Kansas
Lill, Edith Agnes	LAS	10	• † Chicago
Liller, Ruth Margaret	SS	16½	• † Anna
Lilley, Robert W	ME (SS)	111½	• † Aurora
Lillie, Harvey Le Roy	RME		• † Dubuque, Iowa
Lilly, Franklin Panell	LAS	13	• † Chicago
Lilly, Minnie Scott	SS	6	• † East St. Louis
Lin, Kuan Hua	SS	48½	• † Mukden, China
Lindahl, Florence Elnora	LAS	100	• † Wayne
Lindahl, Leon Kenneth	Bus	26½	• † Elgin
Lindahl, Leonard William	Agr		• † Elgin
Lindelof, Frank Albert	CE	8	• † Waterloo, Iowa
Linden, Russell Walfred	Ath		• † Muskegon, Michigan
Lindgren, Edward Carl	Bus	2½	• † DeKalb
Lindli, Edna Frances	SS	7½	• † Greenville
Lindley, Bertrand Hollowell	MinE (SS)	84½	• † Vicksburg, Mississippi
Lindley, James Ralph	EE	42½	• † Marshall
Lindley, Mary	HELAS		• † Hulsenville
Lindquist, Carolyn	HEAgr		• † Chicago
Lindquist, Rubert John	Accy		• † Sycamore
Lindsay, Laurence Jay	Agr (SS)	99½	• † Chicago
Lindsay, Laurence Leslie	Bus		• † Lovington
Lindsey, Adrian Herne	IndA	66	• † Bryan, Ohio
Lindsey, Ralph Elder	AE	140½	• † Bryan, Ohio
Link, Anton, Hulman	Bus		• † Paris
Linke, Madge	HELAS (SS)	26½	• † Seymour, Indiana
Linnard, Clarence Kenneth	LAS		• † Peotone
Lino, Frank Dominic	CE	26	• † Chicago
Little, Elmer Phelps	FOM (SS)	41	• † Champaign
Little, Ethel Esther, A.B., 1917	SS	142½	• † Champaign
Little, Mrs. Julia Florence Bush	Mus (SS)	17½	• † Champaign
Littleton, Harry Matthew	SS	11	• † Muskogee, Oklahoma
Littmann, Edwin Robert	ChE	28	• † St. Louis, Missouri
Littmann, Raymond Edgar	Bus		• † St. Louis, Missouri
Littrell, Donald Bennett	AE	77½	• † Springer, New Mexico
Littrell, Raymond Manuel	ME		• † Dawson, New Mexico
Libermore, Ogden	ChE	33	• † Chicago
Livingston, Thomas Morgan	Agr	103	• † Minonk
Llewellyn, Marie Edith	LAS (SS)	98½	• † Prophetstown
Llewellyn, Rossiter Summy	Bus	32	• † LaGrange
Lloyd, Lawrence Duncan	LAS	88½	• † Catlin
Lobenstein, Arthur Jerome	Bus		• † Decatur
Lochman, Ralph Timmons	ChE		• † Springfield
Lockhart, Paul H	Agr		• † Palestine
Lockwood, William Frederick	IndA	85	• † Kankakee
Loehr, Hazel Coughtrey	LAS		• † Glen Ellyn
Lofquist, Gerald Albert	ME (SS)	104½	• † Chicago
Logan, Francis William	REE	8	• † Joliet
Logan, Kathryn	SS	5½	• † Arcola
Logan, Nellie Isabelle	SS	1½	• † Arcola
Logsdon, Amy Louise	LAS sp		• † Rushville
Long, Charles David	Agr		• † Beardstown
Long, Chester Vernon	AE	4	• † Quincy
Long, Gladys Nora	LAS		• † Watseka
Long, Noah Glynn	Agr		• † Watseka
Long, Vernon M	SS	11	• † Mt. Auburn
Longbons, Belle	Mus	28½	• † Urbana
Longbons, Elizabeth	LAS	28½	• † Urbana
Longbons, Helen	Mus		• † Urbana
Longenotti, La Cari	Bus	31	• † St. Louis, Missouri
Loomis, Agnes Brooks	LAS	70	• † Chicago
Loomis, Emily Fidelia	LAS	99½	• † Chicago
Loomis, Frances Louise	LAS		• † Mattoon
Loomis, Oliver King	Agr	32½	• † Makanda
Loomis, Walter Earl	Agr sp		• † Makanda
Looney, Ursula Mary	Law sp		• † Rock Island
Lopez, Leonor	LAS	94½	• † Champaign
Lorance, Luther Mohler	MedP	18	• † Robinson
Lord, Philip Shumway	Bus	64½	• † Evanston
Loose, Isabelle Martha	LAS	62½	• † Chicago

Lott, Merrill George	LawP		* † Genoa
Lotz, Meyran Alfred	ChE		* † Chicago
Lou, Chi Tin	ME	30	* † Changsha, China
Louis, Herbert Joseph	ChE	31½	* † Chicago
Lourash, Percy David	Agr (SS)	62½	* † Champaign
Love, Frank Armen	Agr		* † Urbana
Love, Harry Halme	SS	105½	* † Newton
Love, John Joseph	EE	30	* † Newton
Love, Willard Lawrence	EE		* † Cartersville
Love, William Wray	ME	8	* † Peekskill, New York
Lovejoy, Charles Ernest, Jr.	Bus	96½	* † Chicago
Loveless, Georgia Emma Cordelia	HEAgr		* † Carlinville
Lovell, Clarence B	ChE	99	* † Libertyville
Lovell, Marie Elsie	LAS	30	* † Kaneville
Lovett, Robert Fillmore	Chem (SS)	68½	* † Urbana
Lovett, Temple Raymond	Agr	33½	* † Urbana
Low, Margaret Loraine	HELAS	5	* † Mounds
Low, Burton James	IndA		* † Kewanee
Lowe, Chinghsi Hiram	Agr (SS)	115½	* † Chingwantao, China
Lowe, Lucy	Mus	43	* † Urbana
Lowes, Helen Hall	LAS	56½	* † Chicago
Lowes, Mary Elizabeth	Jnl	31½	* † Chicago
Lowitz, Jack	Bus	94	* † Chicago
Lowman, Fred L	SS	8	* † Sadorus
Lowrance, Roy E	CerE	78½	* † Robinson
Lowry, Adelaide Louise	LAS	23½	* † Champaign
Lowry, James Paul	Bus		* † Champaign
Lowry, Marie Eva	LAS	9½	* † Champaign
Lucas, Lillian Rebecca	LAS		* † Decatur
Lueders, Conrad Charles	Bus		* † Granite City
Luer, Harry Arthur	Agr	63½	* † Alton
Luhnow, Lester A	Agr	37½	* † Oak Park
Luker, Hannah Dahr	LAS		* † Staunton
Lull, Julian Richard	ME (SS)	77½	* † Evanston
Lum, Ching Yan	SS	27	* † Canton, China
Lumley, Dorothy Elizabeth	Chem	82½	* † Urbana
Lummis, Harold Elmer	Bus		* † Quincy
Lummis, Joseph Gray	Accy	69½	* † Quincy
Lumpp, Mary Janaice	LAS		* † Shelbyville
Lundbeck, Orelid Rudolph	ME	59½	* † Oak Park
Lundburg, Ehrma Lenore	LAS	33½	* † Chicago
Lundeen, Edgar Emanuel	Arch	16	* † Bloomington
Lundgren, Arnold Alinder	CE	116½	* † Rockford
Lundy, Gladys Evelyn	HEAgr	30	* † Champaign
Lurie, Carl Seymour	Bus		* † Chicago
Lurie, Harold Hiram	ChE	10	* † Chicago
Luster, Julian Jay	LawP	68½	* † Chicago
Luther, Caroline, A.B., 1912	SS	134	* † Satoy
Luther, Francis Allen	Ins		* † Geneseo
Luther, Harry Halton	LAS	81½	* † Urbana
Luther, Ida Louise	LAS sp	3½	* † Champaign
Luther, Wilhelmina Caroline	LAS	106½	* † Champaign
Lutton, Annabelle	Mus sp	21	* † Gilman
Lutyens, Leslie Wayne	Bus		* † Tampico
Lutz, Carl Walter	Accy	22½	* † Evansville, Indiana
Lux, Floyd Byron	LawP		* † Wolcott, Indiana
Lyddon, Bert	ME	28	* † Rockford
Lyddon, Forrest Arnold	Ath	21½	* † Rockford
Lyerla, Ava Juanita	LAS	12	* † Irving
Lyle, Allene	Jnl	32½	* † Chicago
Lyman, Bernard Anthony	Bus	57	* † Champaign
Lyman, Mary Agnes, A.B., 1918	SS	137	* † Champaign
Lynan, Isabella Anne	LAS		* † Decatur
Lynch, Helen Charlotte	Bus	90	* † Mattoon
Lynd, Joseph Merle	EE	32	* † Springfield
Lynde, Herbert Bargis	EE	19	* † Chicago
Lyndon, Dudley Knox	LAS		* † Chicago
Lynn, Ardis Lenore	Jnl		* † Byron
Lynn, Cebird B	Voc esp		* † Ashland
Lynn, Estille Lee	EE	20	* † Alton
Lyon, Orville Edgar	AE	3	* † Carthage
Lyon, Stuart Wellington	ME	25½	* † Chicago
Lyons, Ernest Lee	CE (SS)	23	* † Waverly
Lyons, George Wade	EE	17½	* † Chicago
Lytile, Florence May	LAS	32	* † Urbana
Lytile, Laura Holman	LAS	71	* † Byron
Lytile, Manta Marie	SS	15½	* † White Hall
Lytile, Merwyn Quincy	Bus (SS)	68½	* † Quincy
McAfoos, Roy Earl	Agr	28½	* † Ewing
McAnally, Marian Pace	LAS	99	* † Mt. Vernon
McAtee, Mrs. Virginia Louise	Mus sp		* † Urbana
McBrien, Charles Christopher	ChE	10	* † Mt. Vernon
McBride, Robert Porter	Agr	31½	* † Little York
McCabe, Gertrude Marguerite	LAS		* † Ironwood, Michigan
McCabe, James Russell	MSE	38	* † Des Moines, Iowa
McCabe, Marie Belle	SS	89	* † Pontiac

McCabe, Orville Paul	LG	8	• † Brook, Indiana
McCallister, Flavia Cliff	LAS	63	• † Paris
McCann, Franklin Adams	Chem	34	• † Quincy
McCann, Thomas Edward	Ath	8	• † Waukegan
McCarthy, Cecelia Mary	LAS (SS)	86	• † Champaign
MacCarthy, Cornelius George	Arch	8	• † Des Moines, Iowa
McCarthy, Turner Day	Bus		• † Chicago
McCarty, Harold Berkley	CE	36	• † Riverlon
McCaskill, Hadyn Anson	Bus	63	• † Champaign
McCaskill, Illinois	HELAS (SS)	32½	• † Champaign
McCaskill, Lyman Clauson	Agr	97	• † Champaign
McCaskill, Valden Maurice	FOM	75½	• † Champaign
McCaskill, Virginia	HELAS		• † Timewell
McCaskill, Yolande	HELAS		• † Champaign
McCasin, Gladys Bernice	LAS	99½	• † Chicago
McCauley, Edward Edie	EE		• † Geneva
McCauley, Raymond Francis	Bus	43½	• † Chicago
McCaull, Mary Edna	LAS	105	• † Kansas City, Missouri
McCaull, William Seward	EE		• † Kansas City, Missouri
McCay, Clive Maine	LAS (SS)	118½	• † Crawfordsville, Indiana
McClellan, Ruth Lillian	LAS		• † Aledo
McClelland, Adele Burton	Bus	64½	• † Clinton
McClelland, Harriet Newell	HELAS		• † Oak Park
McClelland, Marion Miller	CE		• † Clinton
McClelland, Ralph Lester	ME	59½	• † Chicago
McClinchy, Walter Leslie	EE	34½	• † Nahma, Michigan
McClure, Earl LeRoy	EE (SS)	71½	• † Van Wert, Ohio
McClurg, Nelle Irene, A.B., 1912	SS	133	• † Urbana
McCluskey, Thomas Frank	Agr	30½	• † Orvaneco
McColm, Eugene Miller	ChE	33½	• † Pontiac
McComis, John James	LAS		• † Venice
McConnell, Abram Bodine	Agr		• † Woodstock
McConnell, Dorothy Jane	LAS		• † Champaign
McConnell, Geneviva Deischer	HELAS		• † Danville
McConnell, Helen Evelyn	LAS	101	• † Champaign
McConville, Mary Augusta	SS	1½	• † Nauvoo
McCord, James Robinson	LAS (SS)	25½	• † Blue Island
McCord, Leslie Ira	Bus	27½	• † Blue Island
McCormack, Ned Hume	IndA		• † LaSalle
McCormack, Thomas Hume	LAS (SS)	128½	• † LaSalle
McCormick, Charles Parnell	Law	10	• † Decatur
McCormick, Ethel	HELAS		• † Des Moines, Iowa
McCormick, John Lynn	LAS sp		• † Delavan
McCormick, Kenneth Tilton	ChE		• † Milwaukee, Wisconsin
McCormick, Robert Sudduth	FOM	32	• † Normal
McCormick, Seth Theodore	ME		• † Pontiac
MacCorquodale, Donald William	ChE		• † Chicago
McCoy, Florence Mae	LAS		• † Danville
McCracken, Glenn Wesley	Agr		• † Amboy
McCracken, Lurin Kepple	Bus	8	• † Reno
McCrae, Claude Washington	ME		• † St. Louis, Missouri
McCray, Marian Verla	LAS	92½	• † Danville
McCreary, Eula Marie	SS		• † Carthage
McCreary, Hilda Helen Hillis	SS	8	• † Carthage
McCreary, John Alexander	EE	49	• † Benton
McCubbin, Sallie Logan	SS	8	• † Springfield
McCulloch, Otto Melvin	LAS	20	• † Toulon
McCullough, Dorothea Frances	LAS	10½	• † Marseilles
McCullough, John Thomas	ChE		• † Batavia
McCullough, Robert Osgood	LAS	34½	• † Marseilles
McCune, Thornton Calvert	Chem		• † Chicago
McCurdy, Harry Henry	Ath	16½	• † Marseilles
McCurdy, Laurence Tatum	LAS	20	• † Chicago
McCutchen, Helen Elizabeth	LAS	96	• † New Boston, Iowa
McDaniel, James Filmore	ChE	21½	• † St. Louis, Mo.
McDaniel, Lee Roy	EE		• † Martinsville
McDavitt, Thomas Virgil	Bus		• † Quincy
McDermott, Francis O'Neill	Bus		• † Crescent City
McDevitt, Charles Orr	EE		• † Monticello
MacDonald, Bettie	LAS	20	• † Chicago
McDonald, Carol Russell	ME	32½	• † Arthur
McDonald, Charles Clarke	EE		* † Long Pine, Nebraska
McDonald, Earl George	ChE	34½	• † Chicago
McDonald, Edgar Joseph	AE	73½	• † Chicago
McDonald, Edward Carroll	EE	36	• † Bloomington
McDonald, Harlan Fred	C & L	61	• † Mattoon
McDonald, James Joseph	CE	32	• † Clinton, Indiana
McDonald, John Rupright	Bus		• † Hereford, Texas
McDonald, Robert Pierce	Bus	26	• † St. Louis, Missouri
McDonald, Vernie Brown	LAS	25½	• † Roscoe
McDonnell, John Boniface	LAS (SS)	5	• † Champaign
McDougall, Bertha Galie	LAS	99	• † Petersburg
McDougle, Ella Moore	LG	56	• † Humboldt
McDougle, Ethel Lucille	LAS		• † Urbana
McDowell, Clarence Merle	ME		• † Cedar, Iowa
McDowell, John Keeney	LG	96½	• † Kankakee



McDowell, Mary Kathleen	LAS	32½	• † Robinson
McDowell, Merritt Dewey	Bus	65	• † Centralia
McEldowney, Homer Irving	Bus	29½	• † Chicago Heights
McEldowney, William Earle	Bus	98	• † Chicago Heights
McElfresh, Paul Cliff	Bus (SS)	31	• † Westfield
McElhiney, Helen Catherine	LAS	97	• † Kenney
McElroy, William Edgar	Bus	108	• † Arenzville
McEntee, James Richard	SS	9½	• † Champaign
McEvers, Ernest	EE	107	• † Montezuma
McEwen, Cecil Ray	RME	59	• † McComb, Mississippi
McFarland, Charles Lee	Agr	30½	• † West Chicago
McFarland, Frank Jay	Accy	8	• † West Chicago
McFarland, Wilfred Myers	Law		• † Vincennes, Indiana
McGee, Everett Case	RCE		• † Cicero
McGee, Letitia Louise	HELAS	44	• † Sikeston, Missouri
McGehee, Helen	HELAS		• † Urbana
McGehee, Seelye Wright	Bus	41	• † Urbana
McGehee, Wilbur	LG	72½	• † Urbana
McGill, Maurice Taylor	Agr	3	• † Walseka
MacGillivray, John Henry	Agr	71	• † Urbana
McGinnis, Charles Allen	SS	38½	• † Reevesville
McGinnis, Donald Castle	Bus	40	• † Aurora
McGinnis, Gordon Fiske	IndA	29½	• † Aurora
McGlynn, John J	SS	9½	• † East St. Louis
McGovern, Helen Mary	SS	6	• † Galesburg
McGrath, Edna Mary	LAS	2	• † Freeport
McGrath, Lawrence Philip	ForC (SS)	59	• † Woosung
McGraw, Katherine Leslie, A.B., 1914	Lib	51½	• † Urbana
McGregor, Charles Duncan	Bus	56	• † Oskaloosa, Iowa
MacGregor, Marian Craig	HELAS	94½	• † Rockford
McGuire, Donald David	CE (SS)	70½	• † Aurora
McGuire, Edward Davie	Agr sp	8	• † Makanda
McHarry, Lisette Jane, A.B., 1912	SS	132	• † Rantoul
McIlvain, Leta	Bus		• † Champaign
McInnes, Stirling Joseph	Agr	10	• † Sidney
McIntire, Leo Glenn	Bank	98	• † Hoopston
McIntyre, Robson Duncan	RA	60½	• † Wilmington
McKamy, James Andrew	Bus	30	• † Mattoon
McKarnes, Phyllis Kathryn	LAS		• † Bryan, Ohio
McKay, Ernest Gladstone	Agr	95	• † Wheaton
McKee, Forrest Presley	LAS		• † Kansas
McKeen, Meta GeNette	Mus		• † Morris
McKeever, Thomas	Bus	31½	• † Chicago
McKelvey, Harold Birch	LAS	28½	• † Moline
McKenna, Philip Joseph, Jr.	Agr sp	8	• † Chicago
McKenzie, Lee	Voc tssp		• † Norris City
McKeowan, Thomas Shanks	IndA	21½	• † Chicago
McKewitt, Martin Owen	Bus	25½	• † Blue Island
McKillop, Gordon Lovejoy	SS	7½	• † Wolverine, Michigan
McKinley, Fowler E	CE	10	• † Ogden
McKinley, Lura	SS	8	• † Newton
McKinney, James	SS	4	• † Leven, Scotland
McKinney, John Keryl	Bus (SS)	60½	• † Clinton
McKinstry, Elizabeth Bennett	LAS	34	• † Grant Park
McKnight, William Munro	ME	69	• † Hastings, Michigan
McLain, William Douglas	IndA	33½	• † Springfield
McLamarrah, Thomas Frederick	SS	17½	• † Toluca
McLaren, Joe Peters	ME		• † Marion
McLarty, Alfred Dewey	Law	2½	• † Harvey
McLaughlin, James Robert	EE	118	• † Champaign
McLaughlin, Maud Katharine, A.B., 1909, A.M., 1917	Lib	46½	• † Toledo, Ohio
McLaughlin, Mrs. Olive Belle	Mus sp		• † Champaign
McLaughlin, George Southwell	EE	131½	• † Pocatello, Idaho
McLean, Jack Flinn	LAS tssp	8	• † Oak Park
McLeish, Orlyn Oliver	LAS	69½	• † Rockford
McLellan, Wanda Elizabeth	HELAS		• † Granite City
McLeod, Marion Christine	LAS	30	• † Madison, South Dakota
McMackin, Jean Tweed	LAS		• † Salem
McMahan, Elsie Margaret	Bus	99½	• † Jerseyville
McMahon, William Joseph	Agr		• † Champaign
McManus, Robert James	Agr		• † Chicago
MacMaster, Archibald Kenneth	CerE	35½	• † Chicago
McMillan, Dudley Harding	Mine sp		• † Indianapolis, Indiana
McMillan, Ethel Mae	SHHEEd	80	• † Macomb
McMillan, John Charles, Jr.	MedP		• † New Berlin
McMillan, Louis William	Agr	58½	• † Macomb
McMillan, Paul Edgar	CerE		• † Sparta
McMillan, Wylie Milfred	EE		• † Sparta
McMunn, Richard Lacey	Agr	8	• † Olney
McMurray, Arthur Alexander	Agr		• † Vina, Alabama
McMurray, Hayward Thomas	Agr	31½	• † Divernon
McNair, Helen Willard	Chem	60	• † Louisville, Kentucky
McNally, Andrew	MedP	58½	• † Chicago
McNaughton, Clayton Archibald, B.S., 1919	SS	133½	• † Urbana

McNeill, Jordan Reese	Agr		* † Spur, Texas
McNish, David Thornley, B.S., 1919	SS	130 $\frac{1}{2}$	* † Gory, Indiana
McQueen, Harold George	Arch	105 $\frac{1}{2}$	* † Missouri Valley, Iowa
McQuinn, Ralph Toliver	Jnl	72 $\frac{1}{2}$	* † Salem
McQuiston, Margaret Elizabeth	LAS		* † Paxton
McShane, John Joseph	Ath	8	* † East Chicago, Indiana
McShea, Gladys Eleanor	LAS	92	* † Owaneca
McTaggart, Clarence Glenn	Arch	14 $\frac{1}{2}$	* † Pana
McTaggart, Lloyd Garretson	Ath	8	* † Pana
McVay, Esther Lee	LAS	61 $\frac{1}{2}$	* † Barry
McWilliams, Mrs. Jennie Lind	Mus sp		* † Champaign
Macdonald, James Wear	ME	35 $\frac{1}{2}$	* † Evanston
Mach, George Robert	Agr	62	* † Brookfield
Machamer, Jerome Ellis	MinE	76	* † Wheaton
Mackey, Dorothy Ward	HELAS	110 $\frac{1}{2}$	* † Plankinton, South Dakota
Maddock, Helen	LAS		* † Chrisman
Maddox, Notley Sinclair	LAS	30	* † Clayton
Madsen, Howard	Voc vsp		* † Clifton
Madsen, Kai Marits Ore	ME		* † Milwaukee, Wisconsin
Magers, Mildred Kirtland	LAS	90 $\frac{1}{2}$	* † Chicago
Magid, Hyman Singer	CerE	2	* † Chicago
Magnuson, Dell Martin Enoch	Chem (SS)	61 $\frac{1}{2}$	* † Chicago
Magnuson, Raymond Alfred	Bus		* † Chicago
Maguire, Mary Josephine	SS	78 $\frac{1}{2}$	* † Allon
Mahan, Lawton	LawP		* † Crawfordsville, Indiana
Mahannah, Edward Wayne	Voc vsp		* † Dwight
Maher, Ernest Kenneth	Bus		* † Payson
Maier, Simon Stanforth	Bus		* † Fort Wayne, Indiana
Main, Howard H	CE	62	* † Rockford
Mair, George Nathan	CE	28 $\frac{1}{2}$	* † Chicago
Maitra, Madan Mohan	LAS		* † Chandansi, India
Majeski, Arthur Edwin	CE		* † Chicago
Major, Mary Katherine	LAS		* † Donnellson
Makeever, Olive Irene	HELAS		* † Marseilles
Makepeace, Frank George	Agr	34	* † Kansas City, Missouri
Malapert, Ernest Louis	Bus	90	* † Osage City, Kansas
Malcolmson, David Krause	MinE (SS)	108	* † Urbana
Malcolmson, Robert Joseph	EE	34 $\frac{1}{2}$	* † Kansas City, Missouri
Malecki, John Daniel	ChE	82 $\frac{1}{2}$	* † Oak Park
Malkamus, William	Accy (SS)	70 $\frac{1}{2}$	* † Kansas City, Missouri
Mallers, Edward Benjamin	LAS (SS)	37 $\frac{1}{2}$	* † Chicago
Mallers, John Bernard, III	LAS (SS)	94 $\frac{1}{2}$	* † Chicago
Mallory, Mrs. Lois Evans	LAS	117	* † Champaign
Mallstrom, Roe Eugene	RA	100	* † Harvey
Malnar, Anna Therese Frances	LAS	34 $\frac{1}{2}$	* † Rulland
Malone, Hugh Edwin	Bus		* † Melamora
Maloney, Catherine Margaret	LAS	60	* † Decatur
Maloney, Frances Josephine	LAS	94 $\frac{1}{2}$	* † Decatur
Malsbury, Marshall Raymond	Agr	95 $\frac{1}{2}$	* † Virden
Mandel, Arthur	Agr	9 $\frac{1}{2}$	* † Chicago
Mandeville, Merten Joseph	Bus	90 $\frac{1}{2}$	* † Terre Haute, Indiana
Mangold, Marjorie Alice	SS	24	* † Anna
Manley, John Charles	EE	88 $\frac{1}{2}$	* † Chicago
Manley, Verna Adeline	SS	17 $\frac{1}{2}$	* † Champaign
Mann, Almon Raymond	Bus	30 $\frac{1}{2}$	* † Shumway
Mann, Clair Tambllyn	Agr	63 $\frac{1}{2}$	* † Manteno
Mann, John	Law		* † Latham
Mann, Mary Fidelia	HELAS	65 $\frac{1}{2}$	* † Sullivan, Indiana
Mann, Maurice Edward	CE		* † Elgin
Mann, Shirley	HEAgr	99 $\frac{1}{2}$	* † Kankakee
Mannfeld, Chester Adam	EE		* † Indianapolis, Indiana
Manning, George Alfred	RME		* † Paris
Manny, William Lincoln	ME	35 $\frac{1}{2}$	* † Chicago
Mansfield, Russell	CE	32	* † Chicago
Manspeaker, Caroline Elizabeth	Bus	101	* † Champaign
Manuel, Thomas Brown	Agr sp		* † Greencastle, Indiana
Maramba, Concepcion Garcia	HEAgr		* † Lingayen, Philippine Islands
Maramba, Felix Daniel Felipe	Agr		* † Lingayen, Philippine Islands
Marbold, Charlotte Riche	LAS		* † Greenview
Marbold, Helen	LAS		* † Greenview
Marciniak, Jerome Benedict	ChE		* † Chicago
Marcott, Bessie Foster	HELAS	32	* † Decatur
Margrave, William Bagby	ChE	30 $\frac{1}{2}$	* † Thebes
Markman, Paul	Jnl		* † West Salem
Marks, William Fred	EE	3	* † Hanna, Indiana
Markuson, Raymond Carl	CE		* † Batavia
Markwell, Olen Crow	Agr	99	* † Stonington
Marlowe, Katharine	HELAS		* † Urbana
Marlowe, Wilma McCabe	Chem (SS)	48	* † Vancouver, Washington
Maroe, Luella May	SS	21	* † Rushville
Marquardt, John Walter	EE	33	* † Urbana
Marquedant, Isabel Mildred	Agr (SS)	7 $\frac{1}{2}$	* † Grass Lake, Michigan
Marquis, Donald Edgar	Arch	94 $\frac{1}{2}$	* † Bloomington
Marquis, Vincent Brush	Chem	116 $\frac{1}{2}$	* † Bloomington
Marr, Richard Searl	Agr		* † Oak Park
Marsh, Bessie Ellen	HEAgr (SS)	103 $\frac{1}{2}$	* † Urbana

Marshall, Glenn Wylie	RT	80	* † Rutland
Marshall, John Roseman	EE	8	* † Sheffield
Marshall, Katherine Lee	SS	2	* † Urbana
Marshall, Lowell Vincent Scheidecker	Agr		* † Serena
Marshall, Morris De Bruler	LAS	2½	* † Gibson City
Marshall, Robert Philip	EE		* † Vermont
Marshall, Thomas	Ath	3	* † Bernardston, Massachusetts
Marshall, Thomas Holland	LAS	99	* † Independence, Kansas
Marshall, William Forman	Agr	27½	* † Belknap
Martens, Margaret Louise, A.B., 1918	SS	135½	* † Anchor
Marth, Herman Joseph	Voc vsþ		* † Chicago
Martin, Ada North, A.B., 1915	SS	3½	* † Madison, Wisconsin
Martin, Albert Thaddeus	SS	99	* † Newton
Martin, Ava Eugenia	HELAS	32½	* † Odin
Martin, Brice Burnell	Jnl	2½	* † Sullivan
Martin, Carl Anton	SS	7½	* † Mattoon
Martin, Carl Austin	Agr		* † Sullivan
Martin, Charles Leslie	AE		* † Harrisburg
Martin, Everett Kirby	Bus	30	* † Oak Park
Martin, Hazel Cheryl	LAS		* † Buda
Martin, Laura Louise	SS	4	* † Brighton
Martin, Milford Maurice	LAS	52	* † Murphysboro
Martin, Perry Freeman	EE		* † Sheldon
Martin, Russell Read	LAS	26½	* † Mound City
Martin, Ruth Lucille	LAS	32	* † Milford
Martin, Willard Lasher	Agr		* † Morrison
Martin, William Hugh	Law	28	* † Cache
Martino, James Frank	Bus	63½	* † Dallas, Texas
Martins, Djalma Varella	LAS (SS)	76½	* † Sao Paulo, Brazil
Martinson, Ernest Leslie	CE		* † Paxton
Marvel, Sadie Marie	LAS	74	* † Waynesville
Marx, Elmer Edward	Bank	100½	* † St. Louis, Missouri
Marx, Elmer William	Arch	65½	* † Chicago
Marx, Henry Joseph Kuhs	IndA	41	* † St. Louis, Missouri
Marx, Milton Reuben	Agr	37	* † Chicago
Mason, David Howard	EE	48	* † Chicago
Mason, Earl Greenfield	CE	62	* † Astoria
Mason, Gerald Russell	CE		* † Wichita, Kansas
Mason, James Bryant	MedP (SS)	56½	* † Urbana
Mason, Lee	Agr	106	* † New Richmond, Indiana
Mason, Rodney Starkweather	LAS	64½	* † Highland Park
Massey, Henry Laurens, B.S., 1919	SS	132½	* † Little Rock, Arkansas
Mathey, Arthur Rolla	Agr (SS)	17½	* † Champaign
Mather, Harold Shaeffer	Agr	2½	* † Brook, Indiana
Mathews, Alvin Gugeler	Bus	73	* † Danville, Iowa
Mathews, Robert Cyrus	Agr	2½	* † Yates City
Mathews, Wallace Bruce	ME		* † Fulton, Missouri
Mathias, Henry Ruggles	ChE		* † Chicago
Matlock, Robert Lavern	Agr		* † Yorkville
Matsuda, Sensusuke	Agr	70	* † Yamaguchiken, Japan
Matteson, Blanche Margaret	Bus	28½	* † Pueblo, Colorado
Matteson, Roger Pitkin	Agr		* † Chicago
Matthes, Henry August	CE	2½	* † Chicago
Matthew, Helen	HELAS	32	* † Anderson, Indiana
Matthews, Jim P. A.B., 1916	SS	8	* † Horatio, Arkansas
Matthys, Clifford James	LG	14	* † Van Wert, Ohio
Matzkin, Simon Bernard	CE		* † Chicago
Maung, Tharrawaddy Maung	ChE (SS)	94	* † Rangoon, Burma
Maurer, Frederick Gottlieb	Bus (SS)	94½	* † Chicago
Maurer, Irwin Cook	Ath		* † Collinsville
Mauritzen, Mauritz	Voc vsþ		* † Chicago
Maxfield, John Asbury	MedP		* † Palmyra
Maxfield, Lucile Carolyn	SS	49½	* † Palmyra
Maxson, Raymond Dewey	EE	71	* † Rochelle
Maxwell, Clyde Everett, Jr.	Agr	110	* † Buffalo, New York
Maxwell, Douglas Irving	ChE		* † Myra, Texas
Maxwell, Leslie Blaine, A.B., 1917	SS	138½	* † Paris
May, Lorna Gertrude Wallbrook	LAS		* † Chicago
May, Meredith Russell	ME	8	* † Chicago
May, Olen Edgar	CE	33½	* † Newton
Mayberry, Myers Matkin	ME	122½	* † Farmington, Missouri
Mayer, Adolph	ME	7½	* † Chicago
Mayhue, Don Waters	EE (SS)	77	* † Palestine
Mayhue, Mary Marceline	LAS		* † Palestine
Maynard, Elsdon Lyman	Bus	73½	* † Chicago
Maynard, Stephen Baker, Jr.	Bus	2½	* † Chicago
Mayne, Joseph Ford	ME		* † Little Rock, Arkansas
Mead, Harry Judson	Bus		* † Aurora
Meade, Ehrma Pauline	LAS	101½	* † Champaign
Meals, Robert Woodruff	Agr	112	* † Peoria
Mearns, Jack Greene	MedP	1	* † Kalamazoo, Michigan
Medbery, William Keith	Bus		* † Huron, South Dakota
Meder, Everett Stanley	ME	62	* † Joliet
Mee, Julian Edward	Agr	49½	* † Chicago
Meek, Frederick James	ME	71	* † Marissa
Meeks, Arthur Fay	LawP	18	* † Macon, Mississippi

Meeks, Rosamond Effie	Bus	6½	• † Chicago
Meffert, Owen Harold	Ath	8	• † Mt. Vernon
Megchelsen, Paul Gerard	ChE	8	• † Keokuk, Iowa
Megel, George Dewey	Bus	8	• † St. Louis, Missouri
Megowen, Carl Robert	Bank	60	• † Alton
Meier, Henry John	ME	38	• † Crete
Meier, William Karl	Agr	34	• † East St. Louis
Melangton, Philip Rolland	Bus (SS)	91½	• † Chicago
Melchior, Alvin Carl	Bus		• † Chicago
Melin, Ralph Norton	LG	65½	• † Chicago
Melling, Mamie Kathryn	LAS		• † Alton
Melton, Eva Lenore	SS	8	• † English, Indiana
Melton, Presley	SS	60½	• † English, Indiana
Meltzer, Hyman	Chem	74½	• † Bayonne, New Jersey
Meltzer, Louis	SS	77½	• † Bayonne, New Jersey
Melzer, Charles L.	MedP		• † Effingham
Mendenhall, Norman Richard	EE		• † Brazil, Indiana
Mendenhall, Richard Abram	EE	9	• † Evansston
Mentzer, Geneva Kathryn	LAS		• † Arthur
Mercer, Frederick Olen	LawP		• † Vermont
Merchant, Althea Amaryllis	LAS	93½	• † St. Louis, Missouri
Meredith, Calvin Mateer	Agr		• † Byron
Meredith, Lucile	LAS (SS)	28½	• † Champaign
Meriwether, Mary Louise	LAS		• † Champaign
Meriwether, Shannon	Arch	63	• † Champaign
Merkel, David Felmley	Agr	99	• † Belleville
Merriam, Theodore Howard	FOM	56½	• † LaGrange
Merritt, James Francis	Bus		• † Berwyn
Merrymon, Mary Elinor	LAS sp	15	• † Elizabethtown
Mersbach, Robert Herman	Bus		• † Chicago
Mertens, Elsa Josephine Mildred	HELAS		• † Chicago
Merz, Russell Albert	MinE		• † Chicago
Messenger, Harriett Lucia, B.L., 1902	Lib		• † Urbana
Messer, Paul James	ME	12	• † Chicago
Messer, William James	ME		• † Chicago
Messing, Frank William	AE		• † Cleveland, Ohio
Messinger, Earle Philip	ME	45	• † New Canaan, Connecticut
Messinger, Lester Hubert	ME ssp		• † New Canaan, Connecticut
Messner, William Curtis	Bus		• † Monticello
Metcalf, Herbert Walter	Arch	34½	• † Wichita, Kansas
Metterhausen, Frederick Brockmann	RCE	52	• † Chicago
Metz, Velma Marie	Bus	5½	• † Champaign
Metzger, Freda Elizabeth	LAS		• † Tower Hill
Metzler, Ralph Oliver	Bus	113	• † Champaign
Mewes, Frederic Theodore	CE	28½	• † Golden
Meyer, Alfred Herman Ludwig	Ed	74	• † Venedy
Meyer, Christopher Gustave	CE		• † St. Louis, Missouri
Meyer, Clarence Charles	FOM	39	• † Chicago
Meyer, Clarence Herman	Chem	7½	• † Quincy
Meyer, Ella Kathleen	HELAS		• † Flora
Meyer, Emile	SS	36½	• † Mt. Sterling
Meyer, Fred Ernest	IndA	19	• † Forest Park
Meyer, Frederick William, Jr.	Law (SS)	10	• † Kansas City, Missouri
Meyer, George	Bus		• † Chicago
Meyer, George Leo Nicholas	ME	91½	• † Milwaukee, Wisconsin
Meyer, George William	Ath ssp	8	• † St. Louis, Missouri
Meyer, Glen Logan	Bus	5½	• † Beardstown
Meyer, Helen Florence	HELAS	30	• † Highland
Meyer, Helen Joan	HELAS		• † Havana
Meyer, Roy Edward	ME		• † Peoria
Meyer, Russell Franklin	LawP		• † Springfield
Meyer, Walter Rae	LAS	44	• † Springfield
Meyers, Fred William, Jr.	Bus (SS)	38½	• † Wheaton
Mezck, Frank William	CE	67	• † Chicago
Michael, Albert	LAS		• † Chicago
Michael, Beatrice Anne	LAS	15	• † Champaign
Michael, Richard William	Agr	36	• † Champaign
Michael, William Manford	Law (SS)		• † Champaign
Michalek, John Clarke	Chem		• † Chicago Heights
Miche, Irene Eleanor	LAS	98	• † Elmhurst
Michels, Benjamin Graham	EE		• † Albion
Michels, Earl Peter	LawP		• † Aurora
Middleton, Edward Elias	Bus	52½	• † Chicago
Middleton, George Eugene	FOM	74½	• † Chicago Heights
Middleton, Wayne	CE (SS)	98	• † Victoria, Texas
Midkirk, Jewel R.	EE		• † Belvidere
Mies, Leo Jarlath	Agr	26½	• † Pontiac
Mighell, Albert Thomas	Agr	67½	• † Aurora
Milan, William Patrick	Bus		• † Worthington, Indiana
Milaszewicz, Bernard Vincent	EE	14	• † Chicago
Milemore, Mary Alice	LAS		• † Danville
Milemore, Paul Harold	Agr (SS)	52½	• † Danville
Miles, Josephine Kingston	LAS	91½	• † Peoria
Miles, Leon Rolfie	Agr	21½	• † Walnut
Miles, Margaret Leslie	LAS	50	• † LaGrange
Miles, Spurgeon Browning	Bus	21½	• † Arthur

Millar, Julian Zimmerman	EE		* † Charleston
Miller, Agnes Rebecca	SS	8½	* † Nokomis
Miller, Andrew Kley	LAS		* † Quincy
Miller, Arthur B	Agr		* † Armington
Miller, Ben	LawP		* † Passaic, New Jersey
Miller, Bertie Ethel	SS	32½	* † Westfield
Miller, Carl Roscoe	Jnl (SS)	96	* † Mulberry Grove
Miller, Claire Evelyn, A.B., 1919	SS	130½	* † Negaunee, Michigan
Miller, Clifton Warner	CE	113½	* † Cairo
Miller, Dehilla Lucille	Mus sp		* † Wyoming
Miller, Donald Benjamin	LAS		* † Geneva
Miller, Dorothy Ashton	LAS		* † Ironwood, Michigan
Miller, Earle Leroy	Agr sp		* † Springfield
Miller, Edward Eugene	MedP		* † Cairo
Miller, Elmer Franklin	EE		* † Granite City
Miller, Esther Linnea	LAS		* † Winnebago
Miller, Florence Rice	LAS		* † Racine, Wisconsin
Miller, Flossie Anna	LAS	65½	* † Villa Grove
Miller, Frank Joseph	Agr	21½	* † Pawpaw
Miller, Garnet O'Bryan	Mus	22½	* † Champaign
Miller, George Loughman	ME	8	* † South Bend, Indiana
Miller, Harold Kenneth	AE	20	* † Decatur
Miller, Harry Small	LAS		* † Aurora
Miller, Helen	HELAS	62	* † LaHarpe
Miller, Joseph	Bus		* † Mahomet
Miller, Karl Hansen	ME	51½	* † Green Bay, Wisconsin
Miller, Laura Louise	LAS	36	* † Chicago
Miller, Lewis Elbert	ME	46	* † Pawpaw
Miller, Lloyd BURGART	ME	45	* † Chicago
Miller, Louis Joseph	CE	30½	* † Chicago
Miller, Marion Alice	HELAS	22	* † Shipman
Miller, Myrtle Mae	LAS	30½	* † Centralia
Miller, Oliver David	Agr	35½	* † Princeton
Miller, Ralph Walter	LAS		* † Chicago
Miller, Robert Cunningham	SS	8	* † Butler, Pennsylvania
Miller, Stanley Russell	LAS	8	* † Dixon
Miller, Thomas Leander	ME		* † Summitville, Indiana
Miller, Wilbur Glenn	AE	102½	* † Jerseyville
Miller, William Charles, Jr.	Bus	2½	* † Granite City
Miller, William Joseph	Agr	40½	* † Jacksonville
Milligan, George William	CE		* † Harvard
Milliken, Walter Beale	MedP	45½	* † Little Rock, Arkansas
Mills, Beulah Ozeta	Bus		* † Urbana
Mills, Epler Cadwell	Low	58½	* † Urbana
Mills, George Votaw	Bus	8	* † Turlock, California
Mills, Kenneth Entz	LAS	48½	* † Chillicothe
Mills, Margaret Agnes	SS	8	* † Decatur, Indiana
Mills, Myron Epler	Agr sp	34	* † Virginia
Milne, Edwin Bruce	Bus		* † Oak Park
Milner, George Ellsworth	Bus (SS)	74½	* † Plymouth, Indiana
Milton, Charles	LAS		* † Chicago
Miner, George E	LAS	8	* † Chebanse
Miner, Kingsley	Agr		* † Nora
Miners, Verne Thomas	ME	26½	* † Rockford
Mink, Kathryn Alice	LAS		* † Galva
Minner, Fred Charles	EE	8	* † Sparta
Minnis, Ernest Lillard	Agr		* † Taylorville
Minnis, Harley K	Agr		* † Sharpsburg
Minnis, Lemuel Ernest, B.S., 1916	SS	143	* † Chicago
Minor, Lee Hestlet	Agr	8	* † Greenville
Minturn, Emily Pauline	LAS	28	* † Tuscola
Miranda, Octacilio	Chem	51½	* † Rio de Janeiro, Brazil
Misener, Glenn Edgar	ME (SS)	73½	* † Berwyn
Mishkin, Herman Louis	MedP		* † Chicago
Missimer, Dale Johnson	ME	81½	* † Urbana
Missimer, Mrs. Dale Johnson	HEAgr	84	* † Urbana
Missman, Leva Elizabeth	LAS		* † Dixon
Mitchell, Alfred Joseph	CE	84	* † Monroe, Michigan
Mitchell, Beulah	LAS		* † Virden
Mitchell, John Miln	Bus	75½	* † Evansville, Indiana
Mitchell, Mabel C	SS	6	* † Paducah, Kentucky
Mitchell, Melvin C	EE	8	* † Beardstown
Mitchell, Metta May	LAS		* † Lake Forest
Mitchell, Paul Martin	Law		* † Wheaton
Mitelman, Leon	ME		* † Chicago
Mitenbuler, Robert Lathrop	MinE (SS)	22	* † Chicago
Mittendorf, Bradley Christian	Agr sp		* † Champaign
Mittleman, Edwin John	MedP		* † Chicago
Moburg, Ernest Rueben	Agr	57	* † Monmouth
Mock, Harold Jackson	CE	74	* † Chicago
Moffet, Everett	Bus		* † Barry
Moffet, William Theodore	EE		* † Fort Bliss, Texas
Moffett, John Franklin	Agr	21	* † Ashmore
Moffett, Paul Gayland	FOM	18	* † Indianapolis, Indiana
Mogler, Walter Rudolph	AE	21	* † Rock Island
Mohan, Edgar Herbert	Chem	34½	* † Chicago

Mohr, Albert William Terry	ME	35	* † Chicago
Mohr, Joseph Sutton	ME	93½	* † Chicago
Mohr, Louis Edward	ME		* † Chicago
Moller, Robert Arthur	IndA		* † Paducah, Kentucky
Mollman, Elmer Henry	ME		* † East St. Louis
Molohon, Frank Lambert	EE		* † Davenport
Molz, Alderson	Agr sp		* † Pana
Moment, Asher	ChE	93½	* † Chicago
Monahan, Mary Helen	LAS		* † Kansas City, Missouri
Monier, Nellie Wilmina	HELAS	67	* † Bradford
Monk, Alan Reinecke	Bus	4½	* † Belleville
Monninger, Werner Hugo	Bus	68	* † Indianapolis, Indiana
Monohon, Ila, A.B., 1918	SS	132	* † Urbana
Monohon, Irma Noami	HELAS	100½	* † Fort Smith, Arkansas
Monro, Donald Austin	EE	36	* † Chicago
Monsson, William Henry	CE	30	* † Chicago
Montau, Francisco	ME		* † Decatur
Montgomery, Emily Caroline	SS	16	* † Decatur
Montgomery, Verona Beatrice	SS	16½	* † Decatur
Montgomery, Winifred	HELAS	99½	* † Marseilles
Montooth, Charles Stuart, A.B. 1905, B.S., 1917	SS		* † Neponset
Montzheimer, Arthur Mosher	ChE	55½	* † Joliet
Moody, Paul Andrew	ME	55	* † Elgin
Mooney, Harold Francis	Bus	11½	* † Pesotum
Mooney, Thaddeus Constantine	Bus (SS)	28	* † Philo
Moore, Addison Strong	SS	5	* † Waukesha, Wisconsin
Moore, Allen Ray, A.B., 1918	SS	12½	* † Urbana
Moore, Arthur	SS	9	* † Urbana
Moore, Clarence Mason	Agr	36½	* † Danville
Moore, Edwin Cecil	AE	44	* † Champaign
Moore, Elva Marie	Mus	60	* † Urbana
Moore, Fred	MedP		* † Kansas City, Missouri
Moore, Fred Willard	Agr		* † Wataga
Moore, Frieda Mary	HELAS (SS)	38	* † Harrisburg
Moore, George Wilkinson	Agr (SS)	112	* † Macomb
Moore, Goodloe Edward	AE		* † Danville
Moore, Helen	Mus (SS)	8½	* † Champaign
Moore, Helen Mabelle	LAS	92½	* † Mt. Carroll
Moore, John Edward	ME		* † Whiting, Indiana
Moore, Joseph Leslie	LAS		* † Atwood
Moore, Leland Le Roy	Bus ssp		* † Covington, Indiana
Moore, Letha Orba	LAS	71½	* † Ashton
Moore, Nellie Anna	SS	46½	* † Champaign
Moore, Othmar Lawson	MinE (SS)	64½	* † Garrett, Indiana
Moore, Paul Robert	SS	62	* † Carlinville
Moore, Robert Frank	CE	50	* † Springfield, Missouri
Moore, Virginia Elizabeth	LG		* † Benton
Moore, Walter Raymond	Agr	107	* † Wataga
Moore, William Elder	SS		* † Waukesha, Wisconsin
Moore, William Harinell	Bus		* † Kewanee
Morales, Maximo Eladio	LAS	83	* † Lima, Peru
Morehead, Carl Planders	Bus		* † Shelbyville
Morey, Mrs. Edna Cox	Mus		* † Urbana
Morey, John Frederick	SS	11	* † Vandalia
Morgan, Edgar Wellington	Bus	8	* † Brazil, Indiana
Morgan, Francis Dean	EE (SS)	79½	* † Kane
Morgan, George Newell	Flor	28	* † Elgin
Morgan, George Olav	Bus	24	* † Plainville
Morgan, Henry Charles	Bus		* † Indianapolis, Indiana
Morgan, Irving Bancroft	ChE (SS)	52½	* † Buffalo, New York
Morgan, Marjorie Muriel	Jnl		* † Peoria
Morgan, Marshall	EE		* † Marion
Morgan, May	SS	2½	* † Soddy, Tennessee
Morgan, Norris Gould	Agr		* † Galva
Morgan, Robert Louis	MinE		* † Humboldt
Morgan, Willard Amos	Agr	63	* † Bone Gap
Morgan, William McLennan	ChE	69½	* † Cincinnati, Ohio
Morgan, William Ray	CerE	103	* † Macomb
Morris, Gladys Iona	ComT		* † Georgetown
Morris, Grace Eleanore	HELAS	115½	* † Hersman
Morris, John William	Bus		* † Salem
Morris, Max Carleton	Bus	2	* † Rock Island
Morris, Mildred Ruth	Ed	65	* † Urbana
Morris, Cbie Nathaniel	CE		* † St. Louis, Missouri
Morris, Pat Gingles	Bus	66	* † Murray, Kentucky
Morris, Seth Bradley	CE	33	* † Palatine
Morris, Veva Leone	LAS	62	* † Bluford
Morrison, Carl Raymond	ME	110	* † Columbus, Indiana
Morrison, Clay Alexander	Agr	51	* † Keystone, Indiana
Morrison, Hazle M	LAS		* † Homer
Morrison, Leonard	SS	7½	* † Marquette, Michigan
Morrison, Mary, A.B., 1902, A.M., 1906	Lib	34½	* † Chicago
Morrison, Robert Rees	Agr		* † Chestnut
Morrison, Russell Howard	Accy	96½	* † Rantoul
Morrison, Thomas Rominger	Bus	31½	* † Greensburg, Indiana

Morrow, Charles Edward	ME	36½	* † Champaign
Morrow, Irwin Gealy	Arch	23½	* † Zimmerman, Louisiana
Morse, Alice Mae	LAS	96	* † Carlinville
Morse, Richard Irving	Agr	98	* † Olney
Mortenson, Florence Evelyn	HEAgr		* † Chicago
Morton, Roscoe William	ME	12	* † Downers Grove
Mosbaugh, Louie Joseph	EE sp		* † Arcadia, Indiana
Mosby, Mrs. Clara Irene	HELAS (SS)	107½	* † Urbana
Mose, Florence Isabel	SS	6	* † Shelbyville
Moser, Rosalie Barbara	LAS	43½	* † Chicago
Mosgrove, Charles Adamson	Agr	72½	* † Monticello
Mosier, Henry David	SS	57½	* † Urbana
Moss, Eugenia	LAS	61	* † Mt. Vernon
Moss, Ila	HELAS		* † Neosha, Missouri
Moss, John Redmon	Agr	68	* † Paris
Moss, Joseph Bondurant	Ath (SS)	20½	* † Chrisman
Moten, Frederick Eugene	Agr	8	* † Chicago
Mott, John Harcourt	LAS	27½	* † Rockford
Mott, Richard Merritt	ME	2	* † Rockford
Mottar, Roland Francis	LAS		* † Springfield
Motter, Archie Runkle, A.B., 1919	SS	134½	* † Knoxville
Motter, Henry Edward	Bus	78	* † Lake Worth, Florida
Mottier, John Albert	Agr	8	* † El Campo, Texas
Mottier, Parthenia Irene	HELAS	31½	* † El Campo, Texas
Moulden, Clara Berenice	Bus (SS)	72½	* † Tuscola
Moulton, George Foss	SS	61½	* † Chicago
Mount, Cory John	AE		* † Champaign
Mount, Helen Adrienne	LAS		* † Evanston
Mount, Robert Merl	ForC		* † Chicago Heights
Mount, Roy Mathew	Bus sp	8	* † Champaign
Mowery, Ralph Edward	Accy		* † Ullin
Mowery, William Byron	LAS	65	* † Danville
Moyer, Andrew Jackson	EE ssp	8	* † Paris
Moyer, Clema Grace	LAS	33½	* † Mattoon
Moyers, Grant Tyler	SS	9	* † Mathias, West Virginia
Muchmore, Ethel Eugenia	HEAgr		* † Oblong
Muchmore, Mabel Valeria	HEAgr		* † Oblong
Mueller, Alfred Martin	EE	74	* † Wilmette
Mueller, Fred William	ME	2	* † Chicago
Mueller, Margaret Wilhelmine	SS	8	* † Tower Hill
Mueller, Paul Louis	Bus		* † St. Louis, Missouri
Mueller, Russell Arthur	EE sp		* † Belleville
Mueller, Thomas Edward	ME		* † Oak Park
Mueller, Walter Alfred	AE	51	* † Chicago
Mueller, Walter Rudolph	AE	128½	* † Indianapolis, Indiana
Mueller, Walter Sack	LAS	65½	* † South Bend, Indiana
Mugge, George Hudson	Bus (SS)	70½	* † Harrisburg
Muhs, Elmer Alfred	LG	62	* † Blue Island
Mulberry, Minnie Lorena	Bus	21	* † East St. Louis
Mullen, Leo Francis	ME	60	* † Parkersburg, West Virginia
Muller, Floyd Minch	Agr		* † Washington
Mulnix, Emory Schriver	LAS	59½	* † Lena
Mumford, Dwight Curtis	Agr		* † Urbana
Mumm, Walter John, B.S., 1919	SS	131½	* † Sidney
Muncie, John Dwight	LAS	12½	* † Toledo
Muncie, Wendell Stanley	ChE	60	* † Olney
Mundy, Charles Algy	LAS	27	* † Chicago
Mundy, Otto Seraphim	CerE		* † Huntingburg, Indiana
Munger, Winifred Grace	Jnl	49	* † Virginia
Munroe, Helen Lydia	LAS		* † River Forest
Munsell, Amel Truman	Bank	61	* † Henryetta, Oklahoma
Munsell, Roy Clifton	ChE		* † Henryetta, Oklahoma
Munson, Morris George	IndA (SS)	108½	* † Urbana
Murch, Edith Jessie	LG		* † St. Louis, Missouri
Murch, George Jugo	Bus sp		* † Chicago
Murch, Mildred	LAS		* † St. Louis, Missouri
Murphey, Florence Victoria	LAS		* † Tuscola
Murphey, Bert Kenneth	Bus	51	* † Stockton
Murphy, Arthur Roman	ChE		* † Milwaukee, Wisconsin
Murphy, Charles Hubert	Bus		* † Urbana, Ohio
Murphy, Charles Jerome	ME		* † Indianapolis, Indiana
Murphy, Clyde Harvey	C & L (SS)	30½	* † Harrisburg
Murphy, Daniel Cornelius, Jr.	ME		* † Rock Island
Murphy, George Thomas	MedP (SS)	101½	* † Chicago
Murphy, Harold Joseph	CE	10	* † Aurora
Murphy, Hazel Eva	HELAS (SS)	30½	* † Harrisburg
Murphy, James Francis	Agr	10½	* † Livingston
Murphy, Laurence Webster	Agr		* † Canton
Murphy, Lillie Marie	HELAS		* † Villa Grove
Murphy, Mildred Travis	LAS	29½	* † Wetseka
Murphy, Paul Edgar	Arch	16	* † Long Beach, California
Murray, Bernadine Edna	LAS	111½	* † Rantoul
Murray, Donald Bruce	ForC		* † Springfield, Massachusetts
Murray, Eldredge Merrell	ME	14	* † Chicago
Murray, Erle Francis	Bus		* † Shabbona
Murray, Forrest Kent	Jnl	29½	* † Hoopston

Murray, Frances Josephine, A.B., 1912	SS	8	Sinsinawa, Wisconsin
Murray, Gladys Eloise	LAS	60	† Elgin
Murray, Grace Mildred, A.B., 1917	Lib	32½	† Champaign
Murray, John Ross	CE		† Harvard
Murray, Leonard Ely	AE	110	† Springfield, Massachusetts
Murray, Louise Clare	LAS		† Dekalb
Murray, Lucy Martha	SS		† Centralia
Murray, Ralph Walter	EE	9	† Stockton
Murray, Rowland Hill	ME		† Chicago
Murray, Samuel Walter	Accy	6	† Menominee, Michigan
Murray, William Moore	Bus	29	† Springfield
Musfeldt, Rhoda Maria	LAS		† Rock Island
Musselman, Morris McNeil	Jnl	50½	† Oak Park
Mussett, Ralph Shelton	SS	9	† Grayville
Musmann, Lydia Kathrine	HEAgr		† Grant Park
Musson, Arthur Stowell	EE		† Moline
Myers, Archie Wright	SS	7½	† Goshawville, Michigan
Myers, Cletis Leonard	EE		† Filthian
Myers, Delle Matilda	LG	112½	† Springing, Canada
Myers, Ezra Columbus	EE		† Hume
Myers, Fern Bernice	HELAS		† Bloomington
Myers, Frances Helen	Bus	12	† Champaign
Myers, Franklin Rudolph	LAS	33	† Berwyn
Myers, Grover Beord	Agr sp		† Essex, Missouri
Myers, Harold Bain	Bus	12	† Decatur
Myers, Harold Henry	LawP	25	† Oregon
Myers, Harold Noyes	Agr	70	† Mendon
Myers, Kenneth Hayes	Agr	34	† Mendon
Myers, Morris Rosenthal	Bus (SS)	92½	† Springfield
Myrtengren, Paul Ernest	SS	6½	† Bishop Hill
Nachbar, Abraham Marshall	ME	2	† Chicago
Naeff, Robert William	AE		† Whiting, Indiana
Naegele, Frederick Harold	Arch		† Indianapolis, Indiana
Nagel, Gertrude Elizabeth	LAS		† Chicago
Nagel, Harry George	Bus		† Bushnell
Nagle, George Oda	ChE	8	† Chicago Heights
Nagle, Jencie Mae	HELAS		† Urbana
Nagle, Perry Ira	ME	34½	† Chicago Heights
Nagle, Sybil Kathryn	LAS sp		† Urbana
Naidu, Pagadal Narasimulu Ethirajulu	Chem		† Bangalore, India
Nalbach, Ernest William	Bus		† Moscow, U.S.S.R.
Nangle, Wilfrid Owen	EE	8	† Oak Park
Naramore, Milton Orlando, Jr.	EE	41	† Evanston
Nardi, Julian	ME	67	† Chicago
Nardi, Victor Gaige	Bus	62½	† Chicago
Nasatir, Julius	Chem	41	† Los Angeles, California
Nash, Justin Russell	ChE		† Belvidere
Natho, Karl Rufus	Agr	58½	† Danville
Nations, Leroy J.	LAS	24	† Shawnee, Oklahoma
Naughton, David Augustus	Arch sp		† Champaign
Naughton, Frank Usher, Jr.	Agr	33½	† Champaign
Nay, John Willard	RA (SS)	44	† Chicago
Naylor, Ralph Edmond	CE	87½	† Chicago
Neathery, Rolland Oswald	ForC		† Greenville
Needham, Alfred Allen	Agr	35½	† Rockford
Needham, Carrie Isabel, A.B., 1912	SS	188	† Urbana
Needham, Marguerita	LAS	97½	† Urbana
Needham, Clarence Moulton	IndA		† Rockford
Needler, Lowell Quiggle	IndA	37	† Chicago
Negley, Scott Robertson	EE	32½	† Farmington
Neiburg, Simon Jacob	EE	97	† St. Albans, Vermont
Neiswanger, Victor Bigham	Bus	64½	† Washington, Iowa
Neiswanger, Wandaline Elizabeth	LAS	33½	† Washington, Iowa
Nelms, William Chandler	C & L		† Springfield
Nelson, Arelisle Marie	LAS		† Champaign
Nelson, Arthur Edwin	ME	45½	† Springfield
Nelson, Arthur Elis	IndA	37	† Evanston
Nelson, Arthur Stacey	LawP		† St. Charles
Nelson, Charlotte Augusta	Bus (SS)	26½	† Urbana
Nelson, Dale Avery	C & L	70½	† Donovan
Nelson, Donald Winkler	Bus		† Dwight
Nelson, Earl Loyal	ME	36½	† Rockford
Nelson, Edward Lande	ME	42	† St. Louis, Missouri
Nelson, Ernest Alfred	CE	18	† Chicago
Nelson, Franklin Christian	Agr	4½	† Clifton
Nelson, Franklin Peter	ChE		† Petersburg
Nelson, Gilbert	LawP	17½	† Chicago
Nelson, Gustave Ferdinand	ChE		† Chicago
Nelson, John	AE	82½	† LaGrange
Nelson, John Merritt	LAS	29	† Chicago
Nelson, John Walter	Bus ssp		† Wilmette
Nelson, Joseph Arvin	AE	27	† Chicago
Nelson, Leonard Nels	Chem	8½	† East Moline
Nelson, Louis Melvin	IndA	68½	† Chicago
Nelson, Martin Edward, Jr.	AE	15½	† Chicago
Nelson, Paul Albert	Bus	20½	† Oak Park



Nelson, Robert Willard	Bus	31½	• † Chicago
Nelson, Ruben Otto	CE		• † Berwyn
Nelson, Rudolph Stokes	Chem (SS)	104½	• † Rockford
Nelson, Wendell Phillips	EE	71	• † Champaign
Nelson, Wilbert Kenneth	ME		• † Chicago
Nemoyer, Jason Wallace	MSE		• † Champaign
Nerotm, Arnold Harold	CE	2½	• † Batavia
Nesbitt, Estella Elizabeth	HELAS		• † New Richmond, Indiana
Nesbitt, Kenneth Alexander	Bus		• † Pinckneyville
Neuber, Anna Louise	HELAS	61	• † Litchfield
Neuenschwander, Milo Hugo	Mus	140	• † Berne, Indiana
Neufeld, August Laurence	MedP		• † Peoria
Neumann, Morton Gross	ChE	93	• † Chicago
Neumann, Robert Louis	Bus	3	• † Kokomo, Indiana
Neureuther, Carl Anton	ME (SS)	38½	• † Peru
Neville, Harry Clay	LAS		• † Pinckneyville
Nevitt, Garland	SS		• † Champaign
Newbold, Allyn Davis	ME	8	• † Joliet
Newman, Clarence William	LAS	21	• † Champaign
Newton, Lillie Mae	LAS	63	• † Urbana
Newcomb, Edwin Eldwood	Arch	118½ <sup>12</sup>	• † Wellington, Kansas
Newcomet, Walborn Worthington	CE		• † Logansport, Indiana
Newell, Constance	LAS	71½	• † Urbana
Newell, Roger Sherman	LAS (SS)	31½	• † Urbana
Newenham, Emily Fern	SS		• † Urbana
Newenham, Raymond Lincoln	SS	32½	• † Urbana
Newhouse, Arthur Schmidt	ME		• † Blue Island
Newkirk, Harold Johnston	SS	5½	• † Keyesport
Newman, Ella Marguerite	SS	62	• † Jacksonville
Newman, George Thomas	SS		• † Pittsburgh, Pennsylvania
Newman, Harriett Grace	SS	6½	• † Urbana
Newman, Howard Eugene	Bus	61½	• † Urbana
Newman, Louise Marie	LAS (SS)	66	• † Urbana
Newman, Mary Louise	SS	7	• † Jacksonville
Newman, Roy Leo	Chem		• † Chicago
Newman, Sidney	IndA	126	• † Chicago
Newmark, Valentine Payne	Arch	8	• † Tulsa, Oklahoma
Newport, Willard Leslie	Agr	37	• † Hillsboro
Newsom, Paul Irvin	EE	34½	• † Mattoon
Newton, Dorothy	LAS		• † Urbana
Newton, Frank Wilson	Agr	73	• † Urbana
Newton, Helen Charlotte	HELAS (SS)	130½	• † Fairfield
Ng, Tak Kei	MinE	37½	• † San Francisco, California
Nichols, Esther Inez	HEAgr	29½	• † Elmwood
Nichols, Hilton C	Agr	58	• † Mokense
Nichols, Pauline Angeline	Accy	60	• † Mokense
Nichols, Robert Nairne	AE	32	• † Mokense
Nicholson, Charles Harris	Bus	8	• † St. Louis, Missouri
Nickerson, Carl Dee	Agr sp	8	• † Mattoon
Nicolet, Clara Burt	ME	66½	• † Urbana
Niebergall, Philip Alfred	RA	94	• † New Orleans, Louisiana
Niehaus, John Mark, Jr.	Law	18½	• † Peoria
Niemann, Wilmont Edwin	CE	35½	• † Mount Olive
Niemeyer, Ralph Charles	Ins		• † Belleville
Nightengale, Eugene Richard	EE	86½	• † Champaign
Nilson, Ann Eleanor	LAS	32	• † Chicago
Nilson, Edla Dorothea	LAS	69½	• † Chicago
Nilson, Olga Evelyn	Bus	3	• † Chicago
Nilsson, Alvin Arthur	Agr		• † Pocoluntas
Nims, Isabelle Eugenia	LAS		• † Chicago
Nish, Dudley Weaver	Ins	6	• † Elgin
Nissen, Henry Wiechorst	ME		• † LaSalle
Niu, Yung Sheng	Ed sp		• † Pinyan, China
Nobiling, Walter Louis	Agr (SS)	35½	• † Kewanee
Noble, Herman Emerson	ME		• † Decatur
Noble, Merle Emmet	Law	50	• † Crawfordsville, Indiana
Noble, Reuben Priestley	Bus		• † Princeton
Noelle, William Lincoln	IndA	52	• † Chicago
Noethling, Clarence Max	RCE	35½	• † Chicago
Nolan, Gilbert Francis	Voc 1sp		• † Oweneco
Nolan, Thomas James	C & L	60½	• † Morris
Nolen, Harry Fern	ME	105½	• † Urbana
Noonan, Charles Walter	Bus		• † Granite City
Noonan, Thomas Clifford	C & L		• † LaSalle
Norain, Helge Bernard	CE		• † Hubbard Woods
Nordgren, Maurice Leland	EE	85	• † Galva
Norman, Helen Grant	LAS (SS)	65½	• † Champaign
Norman, Louise Elizabeth	LAS	60½	• † Champaign
Norman, Margaret Angeline	LAS	65½	• † Champaign
Norman, Willard Alfred	Chem	73½	• † Chicago
Norris, Ralph Audubon	Bus	8	• † Ashmore
Norris, Ralph Sackett	Agr		• † Galena
North, Alma Marie, B.S., 1919	SS	130½	• † Rockford
North, Helen Margaret	LAS	98½	• † Tulsa, Oklahoma
North, Page Lane	Agr	80	• † Mattoon
Northam, Carleton Drury	ME	8	• † Wilmette

Norton, Ethan Arlo	<i>Agr</i>	105	† Bloomington
Norton, Helen Maurine	<i>Mus</i>		† Bloomington
Norton, Howard Emerson	<i>ChE</i>		† Wilmette
Norton, Marc Carpenter	<i>Bus</i>	28	† Champaign
Norton, Mildred Clevenger	<i>LAS</i>		† Champaign
Norton, Philip J	<i>Chem</i>		† Belvidere
Nothstein, Ira Oliver	<i>SS</i>	8½	† Rock Island
Nothwang, Roswell Standish	<i>Jnl (SS)</i>	61	† Little Rock, Arkansas
Novak, Julius B	<i>EE</i>	32½	† Chicago
Novak, Leo Vencil	<i>SS</i>		† Cedar Rapids, Iowa
Novak, Leonard Louis	<i>Bus</i>		† Chicago
Novak, Maurice	<i>ChE</i>	34½	† Chicago
Novotny, August Louis	<i>ME</i>		† LaGrange
Nowlan, Ralph Elmo	<i>Agr</i>		† Lafayette
Nowlin, Owen Wendell Emen	<i>MedP</i>	36½	† Farmer City
Noxon, George Albert	<i>IndA</i>	49	† St. Louis, Missouri
Nuckolls, John Albert	<i>Agr</i>	8	† Springfield
Nuessle, Dwight Avery	<i>Bus</i>	23	† Onawa, Iowa
Null, Fay Eddison	<i>EE</i>	8	† Urbana
Nutt, Clarence Arthur	<i>Agr</i>	8	† Mendon
Nyberg, Nettie Irene	<i>LAS</i>	53	† Urbana
Nyikos, Joseph Walter	<i>LawP</i>	32	† South Bend, Indiana
Oakes, Bernard Francis	<i>Bus sp</i>	8	† Maywood
Oakes, Junieur Donald	<i>LAS</i>	20½	† Champaign
Ochoa, Gaspar Dilermando	<i>Agr sp</i>		† Paso Fundo, Brazil
Ochoa, George Vizcaino	<i>EE</i>	108½	† Guadalajara, Mexico
Ocker, Ellen Katharine	<i>LAS</i>		† Indianapolis, Indiana
O'Connell, Violet Leaneore	<i>LAS</i>		† Mokence
O'Connor, Edward John	<i>Bus</i>	6½	† Kewanee
O'Connor, Martin Earl	<i>Law</i>	28	† Kewanee
O'Connor, Roger Russell	<i>EE</i>	72	† Chicago
O'Donnell, Emmett Erwin	<i>ChE</i>		† Ottawa
Oder, Augustus	<i>Agr</i>		† Fairfield
O'Donnell, Frank Harley	<i>Jnl</i>	58½	† Rantoul
Oeschner, Rose Emma	<i>HELAS</i>		† St. Louis, Missouri
Oehl, Arthur Harry	<i>Bus sp</i>	8	† Chicago
Oesterling, Henry Carl	<i>SS</i>	1	† Butler, Pennsylvania
O'Fallon, Thomas James	<i>Mine</i>	2½	† Marianna, Arkansas
Offlighter, Hallie Marion	<i>LAS</i>	58	† Urbana
Ogden, Lynden	<i>SS</i>	6	† Bloomington
Ogg, Ethel Marie	<i>HELAS</i>		† Gibson City
O'Hair, Mildred	<i>LAS</i>	39½	† Bainbridge, Indiana
O'Hara, James Henry	<i>EE</i>	8	† Urbana
O'Hern, John Donald	<i>LawP</i>		† Vermont
O'Hern, Joseph Paul	<i>CE</i>	15	† Joliet
Ohnemus, Paul Michael	<i>ChE</i>		† Quincy
Ohsawa, Gen	<i>ME</i>		† Chiba-Kens, Japan
Okey, Mary Carolina	<i>Agr</i>	70	† Monmouth
Olander, Milton Martin	<i>CE</i>	30	† Rockford
Olbrich, Fred George	<i>CE</i>	129½	† Cedar Falls, Iowa
Olsen, Esther Gertrude	<i>Jnl</i>		† Rockford
Olsen, Henry Erling	<i>CE</i>		† Chicago
Olsen, Rangwald Severn	<i>ChE</i>	2½	† Chicago
Olson, Arthur Humboldt	<i>Bus</i>		† Chicago
Olson, Esther Evangeline	<i>LAS sp</i>		† Poplar, Wisconsin
Olson, Glennard Theodore	<i>ME</i>		† Chicago
Olson, Helen M	<i>LAS</i>	70	† Galesburg
Olson, Oscar Bernard	<i>Voc esp</i>		† Chicago
Olson, Oscar Helmer	<i>ME</i>	110½	† Rockford
Olson, Ray W	<i>Bus</i>		† Weldon
Olson, Verner Bylow	<i>CE</i>	37½	† Chicago
Oltusky, Rose Josephine	<i>Jnl</i>	38½	† Waukegan
Oltz, Russell Manning	<i>EE</i>	32	† Hammond, Indiana
Olwin, Clotilde Florence	<i>LAS</i>		† Westfield
Olympia, Alfonso	<i>Bus</i>		† Boac, Philippine Islands
Omansky, Dora	<i>Mus</i>	92½	† Chicago
Omansky, Samuel	<i>Arch</i>	99½	† Chicago
Omer, Guy Clifton	<i>SS</i>	6½	† Mankato, Kansas
Ongkeco, Jose Vismanos	<i>ChE sp</i>		† Otag, Mololos, P. I.
Ono, Koji	<i>AE</i>		† Tokyo, Japan
Oppenheim, Willard Carlton	<i>ME</i>	32	† Rockford
Orland, Fred William	<i>Agr</i>	74	† Murphysboro
Orput, Raymond Alexander	<i>CE</i>	8	† Rockford
Orton, Julian Rockwood	<i>Agr</i>	29	† Lincoln
Orwig, Harold I	<i>Bus</i>	5½	† Winnetka
O'Ryan, Fergus	<i>EE</i>		† Oak Park
Osborn, Arthur Sprague	<i>ME</i>	38	† Kansas City, Missouri
Osborn, Frances Willard	<i>LAS</i>	94½	† Winnebago
Osborn, Harold Marion	<i>Agr</i>	34	† Buller
Osborne, Marion Vera	<i>LAS</i>		† Urbana
Osborne, Millard Rankin	<i>LAS</i>		† Fisher
Osborne, Russell Smith	<i>Bus</i>	8	† Battle Creek, Iowa
Osborne, William Edward	<i>SS</i>	32	† Spring Valley
Osness, Nelson	<i>LAS</i>	2½	† St. Louis, Missouri
Osterloh, Otilie Elise	<i>SS</i>	27	† Quincy
Ostermeier, Bertha Johanna	<i>SS</i>	17	† Springfield

Ostermeier, Charlotte Marie	SS	3	* † Springfield
Ostermeier, Frederick Walter	Agr sp		* † Springfield
Ostrand, Madeline Jeanette	LAS		* † Champaign
Ostrom, Hallas Willard	Chem (SS)	87 <sup>5</sup> / <sub>42</sub>	* † Chicago
Otanes, Faustino Quosales	Ee Ent		* † Lupo, Philippine Islands
Otey, Ed Rainey	Agr	2 <sup>1</sup> / <sub>2</sub>	* † Marion
Ott, Edward Henry	Bus		* † Grand Ridge
Ott, George	ME	27 <sup>1</sup> / <sub>2</sub>	* † Harvey
Ott, Rush Calvin	ME		* † Ogden
Otterstrom, Ruth Edith	LAS	87 <sup>1</sup> / <sub>2</sub>	* † Lockport
Over, Harold Allard	EE	34 <sup>2</sup> / <sub>3</sub>	* † Fort Worth, Texas
Overbee, William Bryan	REE	90	* † Fairfield
Overy, Orville Raphael	Bus		* † Wolcott, Indiana
Owen, Admyrle Hayward	Bank	95	* † Villa Grove
Owen, George Edwin	Bus		* † Chicago
Owen, Russell Wesley	LawP	50 <sup>2</sup> / <sub>3</sub>	* † Le Roy
Owen, Stewart Douglas	Jnl	94 <sup>1</sup> / <sub>2</sub>	* † Louisville, Kentucky
Owens, Thurston Dorr	EE	115 <sup>2</sup> / <sub>3</sub>	* † Peoria
Owsley, Miriam Elizabeth	LAS		* † Carthage
Ozment, George Lemon	Bus	2 <sup>2</sup> / <sub>3</sub>	* † Johnston City
Paape, Walden William	LG		* † Lake Forest
Packard, Doris Lucinda	LAS		* † Bradford
Packard, Margaret Frances	LAS		* † Bridgeport
Packard, Reginald Floyd	ME	103	* † Peoria
Page, John Archer	Bus		* † Elgin
Page, Kirk Lee	Accy	8	* † Indianola
Pagin, Lewis Bernard	LAS (SS)	93 <sup>1</sup> / <sub>2</sub>	* † LaGrange
Pahl, Henry Detlef	Bus	251 <sup>1</sup> / <sub>15</sub>	* † Clinton, Iowa
Pahl, Margaret Christina	HELAS	101	* † Clinton, Iowa
Painter, James Russell	Agr	29	* † White Hall
Paisley, George Francis	LAS	95	* † Decatur
Paisley, Stella Elizabeth	HELAS (SS)	68	* † Urbana
Palester, Blanche Sayers	SS		* † Urbana
Palmer, Grace Rhodes	HELAS	32 <sup>1</sup> / <sub>2</sub>	* † Omaha, Nebraska
Palmgren, Henrietta Amelia	LAS		* † Chicago
Palmgreen, Leta Ferne	LAS		* † Chicago
Pangborn, Harold L	Bus		* † Champaign
Pankey, Thomas Lorton	ME	32 <sup>1</sup> / <sub>2</sub>	* † Galesburg
Pantaleon, Francisco Fastidio	CerE		* † Castillvos, Philippine Islands
Pappmeier, Waldron	Bus (SS)	54	* † Litchfield
Parcel, Katherine Jeanett	HELAS		* † Casey
Park, Ethel Rosalind	Bus		* † St. Louis, Missouri
Parker, Frances Miriam	Bus	98	* † Mattoon
Parker, Genevieve Mary	HELAS		* † Gilman
Parker, George Thomas	Agr	58	* † Carrollton
Parker, Gertrude Waterhouse	LAS	29 <sup>1</sup> / <sub>2</sub>	* † Aurora
Parker, Griffith Hilton	LAS	45 <sup>1</sup> / <sub>2</sub>	* † Champaign
Parker, Joel Weaver	CE	113	* † Mattoon
Parker, John Houston	ME	55 <sup>1</sup> / <sub>2</sub>	* † Lincoln
Parker, Sanford Welding	EE		* † Oak Park
Parker, William Lee	Bus ssp		* † Carrollton
Parkhill, Ambia Emma	HELAS		* † Champaign
Parkhill, Olen George	Agr	66 <sup>1</sup> / <sub>2</sub>	* † Champaign
Parkinson, Ethel Morton	LAS	58 <sup>1</sup> / <sub>2</sub>	* † Centralia
Parkinson, Lester Jay	Agr sp	19 <sup>1</sup> / <sub>2</sub>	* † Maxwell
Parks, John Edward	EE	35 <sup>1</sup> / <sub>2</sub>	* † Elgin
Parnele, Merle C	EE	8	* † Colfax
Parmely, Maurice Edmund	Agr	64	* † Urbana
Parmer, Garland Ray	EE	10	* † Indianapolis, Indiana
Parr, Barney Felix	SS	6	* † Marion
Parr, Harold Leslie	AE	74 <sup>1</sup> / <sub>2</sub>	* † Champaign
Parr, Harold Lucian	LAS	126	* † Urbana
Parr, Lucille	LAS	32	* † Ctsco
Parrett, Ruth	HEAgr	32 <sup>2</sup> / <sub>3</sub>	* † St. Joseph
Parrott, Thelma Hall	LAS	98	* † St. Louis, Missouri
Parsons, Cecil Dorothy	SS	8	* † St. Louis, Missouri
Parsons, Mary Wilkie	LAS	32	* † Riverton
Parsons, Mrs. Sybil Verona Boynton	SS	8	* † Oak Park
Parsons, Robert Ross	LAS	8	* † Kahoka, Missouri
Paterno, Antonio Maria	ME	14	* † Manila, Philippine Islands
Partridge, Edward Francis	Agr		* † Cornell
Partridge, Wilbur Arthur	Agr	2 <sup>1</sup> / <sub>2</sub>	* † Freeport
Patten, Donald Carl	Bus		* † Oak Park
Patten, Gerald Richard	Jnl	28	* † Minneapolis, Minnesota
Patterson, Bernice Lorene	Bus		* † Mattoon
Patterson, Buthen Bruce	Agr	2 <sup>2</sup> / <sub>3</sub>	* † Houston, Texas
Patterson, Jeannette Mary	LAS	94 <sup>1</sup> / <sub>2</sub>	* † Mt. Carroll
Patterson, Katherine	SS	6	* † Champaign
Patterson, Nera McColpin	LAS		* † Robinson
Patterson, Verna Evalena	SS	7 <sup>1</sup> / <sub>2</sub>	* † Alexis
Pattison, Donald McClure	Agr	24 <sup>1</sup> / <sub>2</sub>	* † Wilmette
Pattison, Elmer Russell	Agr	27	* † Alexis
Pattison, Richard Henry	Agr	33	* † Alexis
Patton, Anna Marie	LAS	32 <sup>1</sup> / <sub>2</sub>	* † Bridgeport
Patton, Audley Everett	IndA	69 <sup>1</sup> / <sub>2</sub>	* † Pittsburg, Kansas
Patton, Franklin Koben	Bus	8	* † Chicago

Patton, Joseph Robinson, Jr.	CE	56½	• † Atlanta
Patton, Lee Moyer	Agr	99	• † Bridgeport
Patton, Leigh Newsom	Agr	31½	• † Mt. Carroll
Patton, Richard Chalmers	LAS	103	• † Atlanta
Paul, Nellie Pearl	HEAgr	7	• † Springfield
Paulson, Enoch Oliver	Agr	59	• † Princeton
Paulson, Le Roy Thomas	Bus	8	• † Waukegan
Paulson, Olive Lucille	LAS		• † Rossville
Paulson, Pauline Augusta	LAS		• † Rossville
Paulson, Philip	Agr	14½	• † Champaign
Paulus, Sylvester Edward	SS		• † Holland, Michigan
Pawn, Zun Lean	RME		• † Soochow, China
Paxton, Burton	ChE	16	• † Champaign
Paxton, Glen Gilbert	LAS	9½	• † Golden
Paxton, James Russell	LAS		• † Gibson City
Payne, Hazel Pauline	LAS		• † Shelbyna, Missouri
Payne, Hildreth Lacue	Chem	42	• † Lexington
Payne, John William	LAS	61½	• † Shelbyna, Missouri
Payne, Maurine	LAS (SS)	19	• † Champaign
Payne, Robert William	Agr	24	• † Chrisman
Payne, Thresa Dortha	SS	25½	• † Lawrenceville
Payne, Walter Lee	SHA Agr	61	• † Shelbyna, Missouri
Paynter, Henry Martyn, Jr.	Bus ssp		• † Glencoe
Paynter, Theodosia Daniel	LAS		• † Glencoe
Payton, Arthur David	Bus		• † Urbana
Payton, Paul Leason	ForC	39	• † Taylorville
Peabody, Frank Nelson	Bus		• † Washburn
Peabody, Paul Henson	Agr sp		• † Stonington
Peak, Frances Ruby	LAS		• † Winchester
Peake, Charles Orlando	LAS		• † Jacksonville
Peale, Carroll Marcellus	ME	35½	• † Kansas City, Missouri
Pearce, Dwight	LAS		• † Robinson
Pearce, Marvin James	ChE (SS)	111½	• † Johnston City
Pearce, Roger Vincent	CE		• † Chicago
Pearlman, Aaron Jacob	Bus		• † Attica, Indiana
Pearman, Ralph David	Bus		• † Paris
Pearn, Florence Jane	LAS		• † Elmhurst
Pearsall, Alvah Leroy	LAS	68	• † Rock Island
Pearson, Grace	LAS	36	• † Thornton, Indiana
Pearson, Howard Nelson	Bus		• † Delatan
Pearson, Lasche	Bus	66½	• † Chicago
Pearson, Robert Miller	ChE	101	• † Thornton, Indiana
Pearson, Walter William	C & L	8	• † Lombard
Pease, David Ward	ME	109½	• † Chicago
Peck, Claribel	LAS		• † Harvard
Peck, Frederick Albert, Jr.	REE	116	• † Chicago
Peck, Harry Conner	Bus		• † Chicago
Peck, Marion Christine	LAS	32½	• † Harvard
Peckmann, Henry Charles	AE	61	• † Webster Groves, Missouri
Peddicoord, Ortho Otis	SS		• † Mt. Crab, Ohio
Peden, Don Charles	Ata	2½	• † Kewanee
Peebles, Carter Davis	LawP		• † Carlinville
Peebles, Snyder Lynn	LawP		• † Marion
Peeff, Nicola Tasseff	ME	30	• † Embore, Macedonia
Peeke, Stella Louise	HEAgr sp		• † Randolph
Peel, Jesse Aldred	LG sp	20	• † Taylorville
Peirson, Wilfred Robinson	Agr	8	• † Murphysboro
Pelton, Leverett Lynton	EE		• † Olmsted Falls, Ohio
Peltz, Ralph Cheney	Jnl	68	• † Clinton
Pelzer, Agnes Theresa	SS	7	• † Cashton, Wisconsin
Pence, Mildred Florence	LAS	25	• † Frankfort, Indiana
Pendergast, Emily Marie	SS	72	• † Urbana
Pendergast, Mary Honora, A.B., 1917, A.M., 1918	SS		• † Urbana
Pendergast, Nelle Marie, B.Mus., 1919	SS	132½	• † Urbana
Penhallow, Harry Wentworth	LAS	114½	• † Chicago
Pennington, Gladys Vernon	LAS	60	• † Kansas City, Missouri
Pentecost, Richard Hill	Bus		• † Elmhurst
Pentland, Robert Lawrence	EE	80	• † St. Louis, Missouri
Pepple, Lloyd Vivian	SS	9	• † Belle Rive
Pera, Theodore	ME ssp		• † Urbana
Percival, Joseph W	Agr	72	• † Champaign
Percival, William Frank	Bus	109	• † Champaign
Perez, Arce Guillermo	EE	63½	• † Guadalajara, Mexico
Perkins, David Homer	Accy		• † Paris
Perkins, John William	Bus	2½	• † Monticello
Perkins, Marguerite Angeline	LAS		• † Chicago
Perkins, Maynard Firth	Jnl		• † Murphysboro
Perkins, Philip Powell	ChE	34½	• † West Chicago
Perkins, Reshao Wilbur	Bus	8	• † Urbana
Perkins, Wayne Emerson	Bus	29	• † Mendota
Perlman, Samuel Charles	Ata	66½	• † Chicago
Perlman, Victor Charles	Bus		• † Chicago
Perrin, Eva Augusta	HELAS	31½	• † Normal
Perrine, Lurena	HELAS		• † Anna
Perrine, Robert Garver	ME	8	• † Oregon

Perrott, Alma Starr	Mus (SS)	73½	* † Champaign
Perry, Edith Birmingham	SS		† Urbana
Perry, Jennie Birmingham	Jnl (SS)	½	* † Urbana
Perry, Lilburn Pleasant	LAS		* † Chester
Perry, Nellie Cora	Bus	13½	* † Chicago
Perry, Robert Franklin	Bus sp		* † Decatur
Perry, Thomas Laemon	ChE	8	* † Johnston City
Perry, Winifred Almira, A.B., 1908 A.M., 1914	LAS irr		* † Urbana
Perryman, Delmar Dexter	Voc rsp		* † Thompsonville
Person, Roy Ludwig	Voc rsp		* † Chicago
Peters, Earle Claude	EE		* † Chebanse
Peterson, Arthur Enevold	Bus	19	* † Chicago
Peterson, Clarence Arthur	CE	19	* † St. Louis, Missouri
Peterson, Edgar David	Jnl	*	* † Paxton
Peterson, Frank Lindell	Bus (SS)	55½	* † Oak Park
Peterson, Irving Leonard	LG	153½	* † DeKalb
Peterson, Ivan Lorenza	ME	32	* † Galva
Peterson, Katharine Lois	LawP	55	* † Chicago
Peterson, Lawrence Eugene	CE	132½	* † Chicago
Peterson, Leonard Nels	Bus		* † Loda
Peterson, Lester Carlisle	Chem	102½	* † Champaign
Peterson, Maurice Winfield	Bus	55½	* † Champaign
Peterson, Milton Fred	Ath	17½	* † Crystal Lake
Peterson, Nathaniel Arthur	MedP		* † Frontenac, Minnesota
Peterson, Ruth Mabel	HEAgr	30	* † Chicago
Peterson, Sherman Fletcher	Bus	5½	* † Rockford
Peterson, Sidney Le Roy	ChE	104½	* † Chicago
Peterson, Walter Bernard	Agr		* † Chicago
Petrie, Ralph William	SS	17	* † Chicago
Pettee, Harold Arthur	Bus		* † Princeton
Pettigrew, Charles Paton	ME	34½	* † Joliet
Pettigrew, Steward William	Bus		* † Oak Park
Pettijohn, Henry	ME		* † Blue Island
Pettit, Royce Edgar	Jnl sp		* † Reynolds
Petty, Lawrence Otis	Agr	81	* † Lawrenceville
Peyton, Edna	LAS	92½	* † Warsaw
Pfeifer, Charles Albert	ME		* † Champaign
Pfeifer, Oliver Conrad	MedP		* † Mascoutah
Pfeiffer, Arthur Edwin	ME	4½	* † Edwardsville
Pfeiffer, Frederick Lyle	Bus		* † Centralia
Pfitzenmeyer, Ada Murray	HELAS	81½	* † Le Roy
Phalen, Francis Joseph	EE	23½	* † Allerton
Phelps, Edmond Strother	LAS	8	* † Chicago
Phelps, Esther Merle Britton	LAS	21½	* † Le Roy
Phelps, Guy Maurice, Jr.	Bus	12	* † Kankakee
Phelps, Harold Raymond	EE	8	* † Neoga
Phelps, Mary Edna	Mus	68½	* † Lawrenceburg, Kentucky
Phelps, William Carne	Bus	8	* † Oak Park
Phillimore, Alphonsus	Bus	8	* † Marseilles
Phillbrick, Marion	LAS		* † Chicago
Phillips, Andrew Sheldon	Arch	28	* † Mattoon
Phillips, Gerald Howell	Agr		* † Chicago
Phillips, Harriet Muriel, B.S., 1919	Agr irr	130½	* † Fennville, Michigan
Phillips, Howard Kendall	Bus		* † Maywood
Phillips, Mary Dodds	Mus sp (SS)	3½	* † Anna
Phillips, Robert John	Bus		* † Elgin
Phillips, William David	CE		* † Richmond
Phipps, Jesse Ray	Voc rsp		* † Pontiac
Picha, Rudolph Joseph	Agr	26½	* † Chicago
Pickard, Edna Odessa	SS	1½	* † Rankin
Pickens, Helen	LAS	29½	* † Vienna
Pickens, Louise Milliken	HELAS	67	* † Ottawa
Pickering, Ernest	Arch		* † Lawrence, Kansas
Pickett, Arthur David	Arch	3	* † Brazil, Indiana
Pickett, Arthur William	AE	132	* † Chicago
Picknell, Helen Virginia	LAS	34	* † Champaign
Pien, Ting Kan	CE		* † Shensi, China
Pieper, Arnold Christian	RT	72	* † Chatham
Pierce, Grace Winifred	LAS		* † Aurora
Pierce, Margaret Mary	LAS	68	* † Chicago
Pierce, Maurice J.	Bus (SS)	85½	* † Champaign
Pierson, Carl Harry	Bus	8	* † Waukegan
Pierson, Esther, A.B., 1917	Lib	32	* † Saxonburg, Kansas
Pierson, Stuart Witver	Bus	8	* † Carrollton
Pieters, Elizabeth, A.B., 1917	Lib	3	* † Holland, Michigan
Pigall, Anna Josephine	LAS		* † Chicago
Pigall, Elizabeth Kerns	LAS		* † Chicago
Pilgrim, Wilbur Francis	Bus	31½	* † Chicago
Pinckard, Harold Reonus	Jnl	79½	* † Monticello
Pinckney, George Clinton	Chem	29	* † Fort Smith, Arkansas
Pinheiro, Machado Dulphe	SS	8	* † S. Luiz, Mistos, Brazil
Pinkel, Leland Armin	Bus		* † Collinsville
Pinkerton, Loyal Griswold	Chem	30	* † White Hall
Pinkerton, William Russell	Agr	33	* † Jacksonville
Pinkley, George Davison	LAS	62½	* † Gibson City

Pinnell, Alma Jean	HEAgr	96½	* † Kansas
Pinnell, George Shelby	Agr	32	* † Kansas
Pirie, Albert John	Bus	31½	* † Chicago
Pitman, Roy Gilbert	Ath		* † French Lick, Indiana
Pittmann, Bertha Lee	Mus sp		* † Brownsville, Tennessee
Pittman, Jannie May	LAS	31½	* † Mt. Vernon
Plambeck, William Francis	EE	30½	* † Moline
Planck, Arthur F., Jr.	Bus		* † Chicago
Pletcher, Louise March	LAS		* † Jacksonvile
Plew, Maurine Lucille	LAS		* † Bozeman, Montana
Plew, William Reece	AE		* † Urbana
Plinke, Gordon Henry	ME		* † Dundee
Plocinsky, Harold Enoch	AE	23	* † Chicago
Plummer, Allison Oliver	Agr (SS)	9½	* † St. Joseph
Plunkett, Horace Mann	Agr		* † Palestine
Plym, Lester Marshall	EE	85	* † St. Charles
Podlesak, Harry George	ME	107	* † Chicago
Poehlmann, Roland Morton	Flor (SS)	95	* † Morton Grove
Poindexter, Gabriel Garner	LAS	4	* † Indianapolis, Indiana
Poirot, Eugene Marcel	Agr	31	* † Belleville
Polk, Arthur Eugene	CerE	139½	* † Urbana
Pollard, Robert Lynn	EE	32	* † Springfield
Pollitt, Russell Lowell	Agr	33½	* † Urbana
Pollock, James Stuart	Bus		* † Kewanee
Pomeroy, Lawrence Hitchcock	AE	13	* † Cleveland, Ohio
Pon, John Maynard	MedP	38	* † Chicago
Pond, Seymour Gates	Bus sp	12½	* † Urbana
Ponzer, Emma, A.B., 1909	MedP irr		* † Henry
Poole, Foster Malic	EE	74½	* † Edwardsville
Poor, Russell Spurgeon	Chem	37½ <sup>1/2</sup>	* † Hamilton, Missouri
Poorman, Florence Ruth	SS	9	* † Humboldt
Porter, Bailey G	Bus	8	* † Garden Prairie
Porter, Barbara Louise	Agr	63	* † Bloomington
Porter, Elizabeth Dorothy	LAS	28	* † Ensworth, Pennsylvania
Porter, Henry Lee	Chem	94½	* † Corfu, New York
Porter, Henry Van Arsdale	SS	7½	* † Peoria
Porter, Horatio Allingham	Bus	51½	* † Gerlaw
Porter, Jennie Blanche	Agr		* † Loda
Porter, Jesse Cartlege	EE	36	* † Martinsville
Porter, Marvele Aline	LAS	28	* † Hume
Porter, Virginia Margaret	LAS		* † Olney
Porterfield, Hazel Ethel	HELAS (SS)	86½	* † Urbana
Postle, David Elmer	Arch		* † Elgin
Postle, George Richardson	Arch	110	* † Elgin
Poston, William Irvin	Bus (SS)	102	* † Crawfordsville, Indiana
Potter, Beulah Adelia	HELAS	67½	* † Indianapolis, Indiana
Potter, Dorothy Buckman	SS	86	* † Champaign
Potter, Frances Eudora	LAS		* † Urbana
Potter, Howard Pratt	MSE	74	* † Decatur
Potter, James Streater	Agr	18½	* † Quincy
Potter, Kathryn Wilder	LAS		* † Champaign
Potter, Merwyn William	LAS	61½	* † LaFox
Potter, Paul Milton	EE		* † Urbana
Potter, Pauline Norma	LAS	26½	* † Hillsboro
Potthoff, Harry Gerard	EE	56½	* † St. Louis, Missouri
Potts, Albert Wood	Agr		* † Pekin
Potts, Morrell	Bus	32	* † Champaign
Potts, Virgil Wayne	Bus	18½ <sup>2</sup>	* † St. Francisville
Poulson, Charles Theodore	MedP	35	* † Armour, South Dakota
Powell, Howard Palmer	ME	32	* † Taylorville
Powell, Hugh Elliott	Bus	2	* † Rockford
Powell, John Henderson, Jr.	LAS	101	* † Kansas City, Missouri
Powell, Robert Perry	LAS		* † Dixon
Powell, Weldon	Accy	37½	* † Logansport, Indiana
Powell, William Jenifer	EE (SS)	46	* † Chicago
Powers, Edna Adella	LAS	69	* † Sterling
Powers, John Early	Agr		* † Blackfoot, Idaho
Powers, Lois Martha	FOM		* † Butler, Indiana
Powers, Margaret	SS		* † DeKalb
Powers, Paul Mighell	ME	34½	* † Blackfoot, Idaho
Powers, Ray Lyman	Bus	26	* † Borrlington
Powers, William Henry	Agr		* † Symerton
Poyser, Gail Kenneth	Agr sp		* † Waukegan
Prather, Jerome Jacob	MinE		* † Chicago
Prather, Vernon Dewey	Agr	6½	* † Urbana
Pratt, Charles Harlow, A.B., 1914	SS	3½	* † Tolono
Pratt, Harry Edward	Ath		* † Cambridge
Pratt, Meryle Edith	LAS	30	* † Chicago
Pratt, Owen Eugene	Agr	30½	* † Armington
Preble, Donald Jay	ChE		* † Kokomo, Indiana
Preble, Mrs. Dorothy Katherine	LAS	58	* † Champaign
Preble, Robert Curtis	IndA	79	* † Champaign
Prescott, John Shedd	LAS	68	* † Wilmette
Presson, Gladys Irene	LAS		* † Champaign
Preston, Walter Bryan	LowP	39½	* † Pekin
Prettyman, Lulu Iva	LAS	94½	* † Havana

Preucil, George	Bus	32½	* † Oak Park
Prewitt, Floyd Earl	Accey	8	* † Urbana
Price, Arthur Jerome	LAS		* † Grant Park
Price, Arthur Lowell	FOM	100½	* † Decatur
Price, Harold Gordon	Agr	62	* † Dwight
Price, Northa Ann	LAS	96½	* † Abingdon
Prichard, Louise Gilman	SS	66½	* † Champaign
Prichard, Mrs. Ginevra Gregory	Mus	96	* † Urbana
Prichard, William Townsend	CerE	29½	* † Champaign
Prindeville, Charles Trego	Agr sp		* † Chicago
Pringle, George Molland	Agr		* † Riverside
Pringle, Helen Smith	LAS	94½	* † Normal
Pritchard, Edwill Humphrey	EE		* † Maywood
Pritchard, Elliott Alfred, Jr.	Agr	112	* † Aurora
Pritchard, Frank Cary	Agr		* † Aurora
Pritchard, Hettie Justine	LAS	37	* † Indianapolis, Indiana
Probst, John Stanley	Agr	99	* † Elkhart, Indiana
Probst, Marvin George	Arch	2	* † River Forest
Proelss, Otto Albert	ChE	103	* † Moundsville, West Virginia
Propst, Christy Anderson	LAS	46	* † Longview, Texas
Prouty, Edwin Rainey	ME		* † Kansas City, Kansas
Pruett, Eugene Francis, B.S., 1916	Agr irr	135	* † Kinmundy
Pruitt, Charles Herbert	LAS	34	* † Orange, California
Puckey, Roy Thomas	SS	12	* † Wheaton
Pugh, Cloyd	Agr	85½	* † Ridgefarm
Pullen, Thomas Rimes	Bus		* † Hillsdale, Michigan
Pulliam, Curtis Edward	SS	7½	* † Mt. Vernon
Pulliam, George Elmer	SS	8	* † Mt. Vernon
Pulliam, Vernon Donald	CE	86	* † Fithian
Puls, Edwin Ernest	EE		* † Hoskins, Nebraska
Pulver, Edbert Lyle	LG	63½	* † Fairmont, Minnesota
Pumpelly, Ruth Allison	Jnl	24	* † Quincy
Purcell, James Sheldon	AE		* † Chicago
Purdy, Glenn Gibson	EE	4½	* † Joliet
Pursell, Florence Bryant	LAS	31	* † Urbana
Putnam, Helen Marguerite	Bus		* † Urbana
Putnam, Leonard Scott	Bus	45	* † Peoria
Putz, Clifford Raymond	CE	7½	* † Rockford
Pyke, Donald O'Connor	Bus (SS)	37	* † Peoria
Pyke, Martha	LAS		* † Peoria
Pyle, Carrie May	HELAS	117	* † Lebanon
Pyle, Robert E.	LawP		* † Toulon
Quackenbush, Charles Verbeck	MedP	45	* † Aurora
Queen, William Robert	Agr		* † Loomis
Quick, Ruth Elizabeth	LAS		* † East St. Louis
Quigley, Francis Harlan	CE	8	* † St. Louis, Missouri
Quigley, Harry Jacob	CE		* † Johnston City
Quigley, Oliver Francis	ME	114	* † Wilmington
Quillman, King Carson	Bus	8	* † Benton
Quin, Lorraine Phillipe	Jnl		* † Waukegan
Quinby, Ivory	Agr (SS)	103	* † Monmouth
Quinlan, Elizabeth	SS	2	* † Independence, Missouri
Quinn, Francis Jones	LAS	24	* † Lafayette
Quinsey, Donald Leroy	Bus		* † Yorkville
Rabenau, John	IndA	71	* † St. Louis, Missouri
Rabinowitz, David Henry	Bus	64	* † Chicago
Racine, Hugh Clark	Bus		* † Urbana
Racine, Roy Charles	Bus		* † Urbana
Rackerby, Arthur Frederick	Law	61½	* † Champaign
Radcliffe, Charles Bauer	ME	44½	* † Rockford
Radebaugh, Desdemona France	LAS	9	* † Hoopston
Radebaugh, Geraldine Ransford	LAS	14	* † Hoopston
Radeke, Alfred Frederick	Bus		* † Buckley
Radeke, Carl Henry	IndA (SS)	109½	* † Buckley
Radtke, Stephan John	SS	7	* † W. Bernard, Alabama
Rady, Samuel Palmer	CE		* † Gibson City
Raffi, Alberta	Arch		* † Red Bud
Raggio, Maynard Holding	LAS (SS)	41½	* † Chicago
Ragland, Nugent Atherton	CerE	58	* † Casey
Rahn, Agnes Marie	HELAS	33	* † Thornton
Rahn, Gertrude Augusta	HEAgr	100	* † Thornton
Raich, Edwin John	CE (SS)	37	* † Warsaw
Raines, Merle Vincent	LAS (SS)	47	* † Urbana
Rainey, Charles Franklin	Agr	9½	* † Hillsboro
Rainey, Frances Lenore	LAS	35½	* † Pueblo, Colorado
Rainey, Lloyd	Accey	8	* † Benton
Rakow, Walter Mattius	RA	44	* † Dundee
Ralston, Albert Alexander	EE	9½	* † Rockford
Ralston, Glenn Smith	Bus	8	* † Caledonia
Ralston, John Caldwell, Jr.	Agr	43	* † Caledonia
Ramm, Walter Ferdinand	Bus	36	* † Chicago
Ramsey, Frank William	Agr	27	* † Washburn
Randall, Chellis Hooker	Agr	25	* † Bowen
Randall, Frank Austin	Agr		* † Brookfield
Randall, Oscar	CE	106½	* † Washington, D. C.
Randolph, Charles Ethelbert	LAS	30½	* † Onarga

Randolph, Glenn Lake	EE	136½	* † Trilla
Randolph, John Wiloughby	Agr (SS)	98	* † Onarga
Rankin, Glenn Marcus	Bus	8	* † Vermont
Rankin, Glenn Wood	Bus sp		* † Monmouth
Rankin, Harley Lester	Arch	28	* † Pekin
Ranney, Joel Alden	Agr	125	* † Cazenovia
Ranney, Leland Mark	Agr	45½	* † Cazenovia
Ranney, Ralph Richard	FOM		* † Cazenovia
Ransburg, Ralph Herbert	Bus	62	* † Indianapolis, Indiana
Ransford, Maurice Reuben	Arch	113½	* † Hollywood, California
Rapp, Mrs. Esther Hulting	HEAgr sp		* † Geneseo
Rapp, La Verne	Ind.A (SS)	53½	* † Chicago
Rarick, John Nelson	Agr (SS)	60	* † Urbana
Rasmus, Walter Ephraim	CE	104½	* † Chicago
Rasmussen, Edvald Lawrence	Bus	10	* † Chicago
Rasmussen, George	Bus (SS)	58	* † Mineral
Rasmussen, Harold Ejner	Bus	108½	* † Chicago
Rasmussen, John Cadwalader	Flor	66½	* † New Albany, Indiana
Rath, Howard Harbin	Bus (SS)	58½	* † Waterloo, Iowa
Rauch, Herbert Louis	MinE	43½	* † St. Louis, Missouri
Raup, Philip Ward	Bus	37½	* † Monroe Center
Rausch, Fred Milton	Ath		* † Dundee
Ravlin, Alta Elizabeth	L.A.S	22	* † Kanerville
Rawling, Hazel	L.A.S		* † Earlville
Rawlings, Bee	SS		* † Richmond, Virginia
Ray, Floyd William	Arch	70½	* † Urbana
Ray, Harold Graves	ME		* † Springfield
Ray, Robert Vernon	EE	36	* † Arthur
Rayburn, Gladys Adele	L.A.S	16½	* † Champaign
Raymond, Emerson Edward	AE (SS)	79½	* † Chicago
Raymond, Frank Edmund	SS	7	* † Racine, Wisconsin
Raymond, George Albert	Bus		* † Evansville, Indiana
Rea, Doren Eugene	Benk (SS)	92½	* † Avon
Reardon, Honore Mary	L.A.S		* † Mansfield
Rebhan, Howard Henry	Agr		* † Raymond
Records, Louise	Bus (SS)	6	* † Villa Grove
Redfean, Loran Elwood	ME		* † Waverly
Reding, Ralph Snears	Agr	112½	* † Petersburg
Redmon, Mary Elizabeth	L.A.S	104	* † Decatur
Reece, Robert Howell	ME	133½	* † Evanston
Reed, Clara Mabel	SS	117½	* † Champaign
Reed, Daisy	L.A.S	32	* † Herin
Reed, Hazel Viola, A.B., 1919	SS	140½	* † St. Louis, Missouri
Reed, Gordon Wies	ME	34½	* † Chicago
Reed, James Lowell	LawP	34	* † Eldorado
Reed, Homer Lee	Bus		* † Lind, Washington
Reed, Leo Bracy	Bus	86	* † Eldorado
Reed, Robert Tevis	Chem	37	* † Indianapolis, Indiana
Reed, Sina Merissa	L.A.S (SS)	95½	* † Danville
Reed, Wilma Virginia	HEAgr	67½	* † Equality
Reeder, Fred Nelson	L.A.S		* † Clinton, Indiana
Reeder, Kathryn May	SS		* † Arthur
Reedy, Theodore Winter	Bus		* † Mt. Carroll
Rees, Charles Thomas	Bus	105½	* † Bradford
Rees, Myron Lester	Agr	115½	* † Rochester, Indiana
Rees, Olive	HELAS	67½	* † Bradford
Reese, Bernard Leon	Agr	8	* † Lovington
Reese, Neilson Walker	CE		* † Urbana
Reetz, Carl Godfried	CE		* † Charles City, Iowa
Reeve, James Thomas	SS	7½	* † Hillsboro, Iowa
Reeves, Dwight Coleman	SS	63½	* † Champaign
Rehnquist, Alf Christian	CE	79	* † Chicago
Rehnquist, Arvid Lawrence	CE	108	* † Chicago
Rehnquist, Vivian Nathaniel	CE		* † Chicago
Reherst, Arthur Henry	Bus	28	* † New Hampton, Iowa
Reich, James Arkle	Agr		* † Versailles
Reich, William Robert	Chem	36	* † Urbana
Reichle, Richard Wendell	Bus (SS)	39½	* † Beason
Reid, Emily Clede	SS	72	* † Albion
Reid, James Thomas	Bus (SS)	47½	* † Sullivan, Indiana
Reid, Prentiss Edgar	CerE (SS)	5	* † Sparta
Reid, Stewart Franklin	CCS	70	* † Springfield
Reid, William Griffith	Agr		* † Genoa
Reider, Albert Durvin	Bus		* † Sheffield
Reif, Richard Emil	CerE		* † Oak Park
Reiman, William Louis	ChE	3	* † St. Louis, Missouri
Reimbold, Harold Powell	ME		* † Nauvoo
Reineck, Robert Walter	ChE	71½	* † Chicago
Reis, Leonard Joseph	Arch	48½	* † Green Bay, Wisconsin
Reitsch, Henry Oviatt	Bus	26	* † Rockford
Rembe, Karl Alvin	Bus	4	* † Lincoln
Remley, Forris Wyman	Bus	8	* † Chrisman
Remley, Minnie Elizabeth	L.A.S	63	* † Waynetown, Indiana
Remley, Walter Brown, B.S., 1919	SS	136	* † Waynetown, Indiana
Rendleman, Adelaide Elizabeth	L.A.S		* † Cairo
Renfer, Leonard George	ForC	3	* † Pekin



Renfro, Eva Marie	LAS	43½	* † Collinsville
Renich, Katharine Louise, A.B., 1911 A.M., 1914	SS		Clinton
Rennebaum, Ernest Henry	LAS (SS)	48	* † Franklinville, New Jersey
Rennie, William Jacob	SS	3½	* † Sactelle, California
Rennoe, Edgar Jackson	Bus	62½	* † South Bend, Indiana
Replogle, Homer Mock	ForC	72	* † Altoona, Pennsylvania
Kesler, Edith Carmen	Bus		* † Fisher
Rettenmayer, Clyde	EE sp		* † Loup City, Nebraska
Reum, Oscar Anthony, Jr.	Chem	43½	* † Chicago
Reuter, Hans Christopher	SS	5	* † Davenport, Iowa
Rey, Matias Celis	C & L		* † Barolac Nuevo, P. I.
Reynertson, George Dewey	AE	22½	* † Chicago
Reynolds, Fred Barnes	Chem	37	* † Berwyn
Reynolds, Hugh Elba	LawP		* † Peoria
Reynolds, James Carroll	Bus		* † Maltoon
Reynolds, Ruth Harwood	LAS	62½	* † Conway, Arkansas
Rhein, Benjamin Ferdinand	Voc usp		* † Carmi
Rhinehart, John Alfred	Agr	4	* † Irving
Rhinehart, Victor Langdon	Agr		* † Hudson
Rhines, Parr Alvin	ME		* † Marseilles
Rhoads, Marie Corzine, A.B., 1918	SS	133½	* † Champaign
Rhodes, Frances	Mus	63	* † Allamont
Rhodes, William Addison	Bus	10	* † Cedar Rapids, Iowa
Rice, Bert Woodard	EE ssP	7½	* † Kanakakee
Rice, Frederic Leland	LAS		* † Aurora
Rice, Helen Thompson	Accy	61½	* † Bridgeport
Rice, Herbert Orville	ME		* † Champaign
Rice, Lois Marie	LAS		* † Worden
Rice, Nathan Lyman	Agr	90	* † Philo
Rice, Warner Grenelle	LAS (SS)	100½	* † Aurora
Rich, Frederick Jaspersen	Chem		* † Clear Spring, Maryland
Richards, Milton Clyde, Jr.	ME	21	* † Cleveland, Ohio
Richards, Orrin Albert	Accy		* † Chicago
Richards, Raymond Hamilton	AE sp		* † Wyoming, Ohio
Richards, Robert Watt	ME (SS)	34½	* † Urbana
Richardsen, Barnett Raymond	ME	29½	* † Oswego
Richardson, Donald Ellis	Bus	29	* † Shelbyville
Richardson, Edith Irene	LAS	64½	* † Tipton, Indiana
Richardson, James Hollins	CE	35	* † Rentchler
Richardson, Ralph Lewis	EE		* † Rockford
Richardson, William Farrell	Voc usp		* † Chicago
Richart, Berta Estella, A.B., 1919	SS	142½	* † Urbana
Richart, Mrs. Mary Fern, A.B., 1916 B.Mus., 1917	Mus irr	170	* † Urbana
Richburg, Louis Allan	MedP		* † Centralia
Richburg, Welton Edwin	MedP		* † Centralia
Richeson, Alice Eliza	LAS		* † St. Louis, Missouri
Richey, Juanita Poe	Mus		* † Palestine
Richmond, Jay	LAS		* † Normal
Ricker, Ethel, B.S., 1904	Arch irr		* † Urbana
Rickert, Edward Ernest	ChE	31½	* † Chicago
Rickler, Robert Lawrence	Voc usp		* † Pochontas
Riddle, Garth Tuthill	Agr	37½	* † Bloomington
Rideout, Orletta Estelle	LAS	95	* † Freeport
Rider, Jay Merle	LawP	30	* † Rockford
Rider, Walter Gates	Bus	8	* † Chicago
Ridlen, Herman	LAS	8	* † Willow Hill
Riefler, Edward William	MSE	23½	* † Springfield
Riegel, Edith E	HELAS	42	* † Galatia
Riese, Hazel Fern	Bus	21	* † Bloomington
Rife, William Eldridge	MedP	31	* † Villa Ridge
Riggs, Harold Miller	Bus	32	* † Indianapolis, Indiana
Riggs, Norma Royce	Jnl		* † Elgin
Rilling, Charles William, Jr.	Bus	1	* † Chicago
Rinck, Franklin Bliss	ChE	113½	* † Rock Island
Rindell, John Harman	CE		* † Chicago
Ringer, Marian Louise	LAS		* † Chicago
Rinker, Irving Treadwell	IndA		* † Chicago
Ripley, Dorothy Susan	Bus	30½	* † Chicago
Risher, Frank Llewellyn	Bus		* † Chicago
Risley, Ralph Edwin	ME	111½	* † Brazil, Indiana
Risley, Walter John, Jr.	Chem	121½	* † Decatur
Ritcher, Henry Adelbert	SS	107½	* † Decatur
Ritchie, Walter Wayne	Agr		* † Troy
Ritsch, Howard Paul	IndA (SS)	62½	* † Hadley
Ritt, Arthur Carl Ludwig	MedP		* † Chicago
Rittel, Carter Russell	Bus	24½	* † Crystal Lake
Rittenhouse, Donald Arter	EE	96	* † Elkhart, Indiana
Ritter, Claris	LAS		* † Cairo
Ritzman, Harry Edward	Bus	7½	* † Chicago
Rivero, Benjamin	SS	4	* † Freeport
Rizer, Conrad Kuhl	Agr	25	* † Cochabamba, Bolivia
Roach, Alden Gallup	CE	35½	* † Champaign
Roach, Emmet John	Bus	63	* † St. Louis, Missouri
Roach, Harry Fay, Jr.	Jnl		* † Chatsworth
			* † St. Louis, Missouri

Roan, Charles Frederick	MedP	9½	• † Chicago
Robb, Harry Martin	SS	7½	• † Windsor
Robertson, Mary	SS	40	• † Villa Ridge
Roberts, Dewey Minnis	MedP	90	• † Lakewood
Roberts, Elmer Clifford	AE	72	• † Oak Park
Roberts, Hally Evert	Voc tsp		• † Edinburg
Roberts, Lois Madeline, A.B., 1919	SS	137½	• † Chicago
Roberts, Roy La Verne	Voc usp		• † Danville
Roberts, Shelton Edgar	Agr		• † Oaklana
Robertson, Alfred James	SS	8½	• † St. Paul, Minnesota
Robertson, Almira Janette	LAS		• † Sparta
Robertson, Edna Maude	LAS	110	• † Champaign
Robertson, Everard Packard	EE		• † Arcola
Robertson, Hubert Oscar	Law		• † Decatur
Robertson, Ina Cullom	Ed (SS)	66½	• † Centralia
Robertson, La Rue Elizabeth	LAS		• † Riverside
Robertson, Laura Pursell	LAS		• † Kansas City, Missouri
Robertson, Robert Bruce	MedP	31½	• † Chicago
Robertson, Robert Crawford	MedP (SS)	92½	• † Coulterville
Robertson, Roy William	Voc tsp		• † Bowen
Robertson, Mrs. William Spence			
A.B., 1907	LAS irr		• † Urbana
Robeson, Frank Kern, Jr.	SS	53	• † Champaign
Robinson, Arthur Selden	CE (SS)	30½	• † River Forest
Robinson, Benjamin Dwight	Agr		• † Kansas
Robinson, Clara Louise	SS		• † Urbana
Robinson, Clyde North	EE		• † Joliet
Robinson, Harold Lynn	Bus	98	• † Springfield
Robinson, Harry Alma	EE	19½	• † Independence, Missouri
Robinson, Hobart Clay	Agr (SS)	57½	• † Kansas
Robinson, Hugh Dean	LAS	101	• † Harvey
Robinson, Hugh MacKellar	ME		• † Chicago
Robinson, Juanita Celestia	LAS	35½	• † Sioux City, Iowa
Robinson, Leon Earland	ChE		• † Oelwein, Iowa
Robinson, Leon Wood	EE	67½	• † Watertown, New York
Robinson, Marion	SS	6	• † Galesburg
Robinson, Ross Olin	Agr sp		• † Pittsfield
Robinson, William Ballard, Jr.	Agr		• † Wilmette
Robison, Lorin Wayne	Bus		• † Augusta
Robison, Mary Leslie	LAS		• † Pekin
Robison, Ray Dewey	Agr	11½	• † Ferris
Robison, William Jonas	SS	8	• † Monticello
Roche, Thomas Joseph	ChE		• † Chicago
Rock, Burnham Sanborn	ChE		• † Kansas City, Missouri
Rock, Gerald Pennell	Bus sp	16½	• † Chicago
Rock, Hazel La Rue	Bus sp	8	• † Canton
Rockabrand, Carmen C	LAS	81	• † Sterling
Rode, Esther Frieda	HEAgr	31½	• † Granite City
Rodecker, Alfred Wilson	Arch	2	• † Indianapolis, Indiana
Rodewald, Charles William	ChE	108	• † Rushville
Rodgers, Charles Andrew	LAS	121	• † Monmouth
Rodgers, William Henry	EE	64	• † Monmouth
Rodkey, Mrs. Mildred Temple Ryan	LAS	84½	• † Champaign
Rodman, Mrs. Blanche	Mus sp		• † Tuscola
Roels, Harvey Jules	SS	7½	• † DePere, Wisconsin
Roepe, Roland	SS		• † Waterloo, Iowa
Rogers, Frances Marian	LAS	30	• † Table Grove
Rogers, Fred Hurrell	Flor		• † Addison, Michigan
Rogers, Mary Josephine	Mus		• † Champaign
Rogge, Ocie John	LAS		• † Petersburg
Roggero, Carlos Casas	EE (SS)		• † Lima, Peru
Rohr, Conrad Martin	Bus		• † Blue Island
Rohr, Walter Henry	RA	72	• † Chicago
Robtough, Ruth Watson	HELAS		• † Kinross
Roland, Phillips Hood	Flor	8	• † Nahant, Massachusetts
Roland, Robert Hood	Flor (SS)	55½	• † Nahant, Massachusetts
Roll, Gilbert Arthur	Bus	54	• † Blue Island
Roll, Ray Harold	Agr	38	• † Mason City
Romanoff, John	Agr sp		• † Chicago
Romig, Jesse Arnold	IndA	85	• † Champaign
Romig, Lieuelien Dendight	EE	37	• † Champaign
Ronalds, Francis Spring	Law		• † Cerini
Rooney, James Cornelius	ChE		• † Robinson
Roos, Roy Emil	Bus		• † Chicago
Root, Roy Melvin	Arch		• † Urbana
Root, Russell William	Law		• † Morris
Root, William Ruffie	Bus	16½	• † Terre Haute, Indiana
Rosa, Eduardo Pereira	EE		• † Paris, France
Rosaire, Carol Gwyn	Agr	8	• † Chicago
Rosales, Alfonso	Chem		• † Mexico City, Mexico
Rosales, Leopoldo	MedP	2	• † Mexico City, Mexico
Rose, Charles Inse	ChE	35½	• † St. Louis, Missouri
Rose, Freda Pearl	LAS		• † Champaign
Rose, Hiram Le Roy	ChE		• † Urbana
Rose, Lena Belle	LAS	63	• † Urbana
Rose, Myron Potter	Bus	10½	• † Champaign

Rosebraugh, Linder William	Accy (SS)	71½	* † Charleston
Rosen, Ainsley Harold	Jnl		* † LaSalle
Rosen, Lloyd Charles	Agr	17½	* † LaSalle
Roseman, Fidelio Alexander	CE (SS)	7½	* † Danville
Roseman, Irving Howard	Bus	21½	* † Chicago
Rosenberg, Alexander	Jnl	25½	* † Bayonne, New Jersey
Rosenberg, Sidney	Bus		* † Cairo
Rosenberger, Beulah Gladys	LAS	20	* † Beardstown
Rosenblatt, Leonard Samuel	Bus ssp		* † Chicago
Rosenblum, Albert Frank	MedP		* † Chicago
Rosenblum, Somalia La Vita	LAS	99½	* † Chicago
Rosenbluth, Joseph	EE	2	* † Chicago
Rosendale, Harold Douglas	ME	35½	* † Chicago
Rosengard, Jerome	MedP		* † Chicago
Rosenquist, Carl Martin	Agr	70½	* † Mitchell, South Dakota
Rosenstone, Edwin Arthur	LAS	103	* † Cambridge
Ross, Fuller Francis	Chem	3	* † Kansas City, Missouri
Ross, Harley Matthew	ME	9½	* † Morrison
Ross, Janet Schlenders	LAS		* † Oak Park
Roth, Walter John	Agr	138½	* † Denver, Colorado
Rotramel, Everett Roy	Bus	66	* † Benton
Routh, Thomas Rex	EE	24½	* † Galesburg
Rowatt, Paul	Bus	36½	* † Cartersville
Rowe, Arthur Wilson	ME	25½	* † Chicago
Rowe, Shearl Leland	Agr sp		* † Henry
Rowland, Harold William	Bus		* † Dixon
Roy, Beulah Constance	LAS	25½	* † Tuscola
Roy, Celia Ann	LAS	59	* † Mattoon
Roy, Sarat Kumar	LAS		* † Krishnagar, India
Roy, Walter Dewey	Ath	4½	* † Pesotum
Roy, Waneta Marie	LAS	60	* † Mattoon
Royal, Thomas Everette	Agr		* † Oak Park
Royer, John Galen	Bus	8	* † Huntingdon, Pennsylvania
Rubenstein, Harry Ernest	ME		* † Chicago
Rubin, Isadore	AE	3	* † Chicago
Ruckman, Frances Desmond	LAS		* † Champaign
Ruckman, Kathleen Margaret	Ed	62½	* † Champaign
Rudd, Melvin Eugene	ChE	34	* † West Chicago
Ruf, Mary Elizabeth	LAS		* † East Cleveland, Ohio
Rugg, Ruth Genevra	Chem (SS)	34	* † Olney
Ruggles, Harold Joseph	Bus		* † Oak Park
Ruh, Dwight Holton	Bus		* † Tallula
Ruh, Harriet Frances	HEAgr sp		* † Park Ridge
Ruhl, Herbert Alfred	Bus	31½	* † Davenport, Iowa
Ruble, George Cornelius Frederick	ChE	61½	* † Kankakee
Rule, Harlie Fearn	FOM	62½	* † Illinois
Rummel, Evelyn Agnes	LAS	75½	* † Emden
Rumming, George Edmund	LAS		* † East St. Louis
Rumsey, Fay Eldora	Bus	6	* † East Aurora, New York
Rumsey, Harriet Evelyn	LAS	14	* † Alton
Rumsey, Zilla	SS	67½	* † Muscatine, Iowa
Runkle, Donald William	CE		* † Rushville
Runyan, John Foster	Chem		* † Olney
Runyan, Marcus Eugene	LAS	4½	* † Chicago
Rupel, Edna Belle	HEAgr sp		* † Walkerton, Indiana
Rupel, Isaac Walker	Agr		* † Walkerton, Indiana
Rush, Clara Lillian	HELAS	83½	* † Detroit
Rush, Harriet Margaret	LAS	40½ <sup>12</sup>	* † Detroit
Rush, Madge	Mus	80½ <sup>12</sup>	* † Salina, Kansas
Russakov, William Irwin	AE	70½	* † Chicago
Russell, Charles Chauncey	ChE	91½	* † Joliet
Russell, Clarence Callahan	Bus	28½	* † Tiskilwa
Russell, Edwin Avery	CE	112	* † Buffalo, New York
Russell, Evelyn Hastings	LAS	64½	* † Frankfort, Indiana
Russell, George Major, Jr.	ChE	30	* † Garden Grove, Iowa
Russell, Helen Mary	Jnl	30½	* † Champaign
Russell, Joseph William	Agr		* † Roberts
Russell, Mary Dunlap	HELAS (SS)	91½	* † St. Louis, Missouri
Russell, Ruth Edna	LAS	45	* † Kansas City, Kansas
Russell, William Bradford	ME	62½	* † Joliet
Rust, Louis Ernest	Agr	58½	* † Sibley
Rutherford, Harriet	LAS	64	* † Oakland
Rutledge, Cora Elizabeth	Agr		* † Fort Dodge, Iowa
Rutledge, Margaret Emma	HELAS (SS)	105½	* † Champaign
Ruzicka, Lillian Mae	CCS	33½	* † Chicago
Ryan, Clarence Walter	Agr	28	* † Alton
Ryan, Howard Robert	EE	138½	* † Elgin
Ryan, Lawrence Donat	MedP	14½	* † Kewanee
Ryan, Leona	LAS		* † Liberal, Kansas
Ryan, Seth Warren	Agr	8	* † Lincoln
Ryan, William Emmett	ME	35½	* † Chicago
Rycroft, Herbert Dyson	Law	3½	* † Chicago
Ryder, Bruce Ivan	MedP	69	* † Bradford
Ryder, Earl	LAS	45½	* † Springfield
Ryersen, Norman Albert	EE		* † Chicago
Rystrom, Charles Hough	CE	30	* † Rockford

Saalwaechter, Leonard Thomas	SS	6½	† Owensboro, Kentucky
Sabin, Albert Robbins	Agr	51	• † Chicago
Sabin, Merrill Simons	CE		• † Antioch
Sabo, John Philip, Jr.	Ath (SS)	30½	• † South Bend, Indiana
Sachsel, Milton Henry	LAS	31½	• † Chicago
Sackett, Charles Homer	Voc tsp		• † Champaign
Sackett, Edna Kathryn	SS	4	• † Danville
Sackett, Fred Ward	LAS	69	• † Danville
Sadler, Harold Frank	Bus	54	• † Grove City
Saffell, Gladys Deforest, A.B., 1917	LAS irr	150	• † Urbana
Saffer, Rex Eugene	LAS (SS)	49	• † Urbana
Safford, Mary Katherine	LAS	34	• † Monmouth
Safford, Verle Willson	LawP		• † Washburn
Sagendorph, Arba Loren	EE	76½	• † LaGrange
Sager, Gladys Elizabeth	HELAS	30	• † Belvidere
Saha, Aatto Paivio	ME	33½	• † Bjorneborg, Finland
Sahud, William Harry	Jnl	69½	• † Chicago
St. Cardosi, Chris Victor	C & L (SS)	59	• † Canton, Iowa
Sale, Cora Virginia	LAS	67½	• † Urbana
Sallee, Roy Merridith	SS	76	• † Gorlaev
Salstrom, David Nathaniel	ChE		• † Chicago
Salter, Marjorie Moutrie	LAS	2½	• † Chicago
Salveson, Stella Marie	LAS	61	• † Petersburg
Salzenstein, Charles Stanley	CE		• † Peoria
Salzenstein, Louis Charles	Bus	66½	• † Milwaukee, Wisconsin
Samkovitz, Milton Jene	Bus		• † Chicago
Sammons, Loraine Adelaide	LAS	33½	• † Huntington, New York
Sammons, William Baird	EE		• † Springfield
Sampson, Jesse	Agr		• † Leland
Sampson, Russell Bryan	Agr (SS)	16½	• † Washington
Samuel, Dorothea	Agr (SS)	7½	• † Philadelphia, Pennsylvania
Samuels, Morton Edward	LAS	18	• † Chicago
Sanders, Azel Labon Ralph	CE	77	• † Moorhead, Minnesota
Sanders, Ella Pickels	SS	85½	• † Goreville
Sanders, Helen	HELAS		• † Champaign
Sanders, John Alfred	Bus	64½	• † LaCrosse, Wisconsin
Sanders, Paul Thomas	FOM	31	• † Champaign
Sanders, William Chapple	ME	26	• † Ottawa
Sanders, William Howard	LAS (SS)	100½	• † LaCrosse, Wisconsin
Sandholm, Frank Henry	Bus	39	• † Sycamore
Sandler, Edward Adolf	Law	56	• † Chicago
Sandusky, Eleanor Elizabeth	HELAS	30½	• † Catlin
Sandvold, Conrad Elmer	Bus	101	• † Moorhead, Iowa
Sanford, Robert Stillson	MinE	19	• † Normal
Sanmann, Frank Paul	Agr	64½	• † Havana
Sansom, Grace	Bus		• † Evansville, Indiana
Sanson, William Herbert	ForC		• † Atoka, Oklahoma
Sargent, Algernon Millar	Agr	47½½	• † Lincoln
Sargent, Edward Fordyce	MedP	8	• † Le Roy
Sarven, James David	LAS (SS)	82½	• † St. Petersburg, Florida
Sasserman, Robert Jay	IndA		• † River Forest
Sassman, Howard	Bus	31½	• † Chicago
Sato, Atsushi	Agr sp	3	• † Maizumachi, Japan
Sato, Michio	ME	32	• † Fukuyama, Japan
Satre, Harold Peter	AE		• † Sheboygan, Wisconsin
Sattley, Hope Cody	ChE	35½	• † Chicago
Saunders, William Flewellyn, Jr.	SS	7	• † St. Louis, Missouri
Savage, Edwin Waters	LAS	30	• † Belleville
Savitzki, Sol	MinE	8	• † Chicago
Sawers, Kathleen	LAS	16	• † St. Louis, Missouri
Sawyer, Isaac Cornelius	ChE	77	• † Springfield
Sawyer, John Wardell	ME	8	• † Norborne, Missouri
Sawyer, Philetus Thomas	Agr	71	• † Springfield
Sawyer, Ralph Warren	Bus	70	• † Chicago
Sax, Abe Morris	ChE	56	• † Chicago
Saxe, Charles Lee	ChE	8	• † Watske
Saylor, Josephine Agnes	LAS		• † Bridgeport
Scaggs, Hansell Elbert	EE		• † Lexington
Scaggs, Pearl Rose	LAS	105½	• † Lexington
Scanlan, Clarence Edward	Bus	32	• † Freeport
Scanlan, John Thomas	ChE		• † Omaha, Nebraska
Scanlan, Robert William	Agr		• † Newton
Scarritt, Elwood William	ChE		• † Oak Park
Schad, Olivia Venn	LAS	50	• † Indianapolis, Indiana
Schaefer, Elizabeth	LAS		• † Carlyle
Schaefer, John Victor	Chem		• † Chicago
Scharfenberg, Frank Alfred	Bus	36	• † Streator
Scharfenberg, Karl Julius Robert	Bus	46	• † Streator
Scharringhausen, Lewis Benjamin	ChE	74	• † Des Plaines
Schaub, Frederick Weienett	LAS	34	• † Decatur
Schaub, Lisle Chester	EE	32½	• † Chicago
Schaeffelberger, Paul William	Bus		• † Chicago
Schaus, Eunice	LAS		• † St. Louis, Missouri
Scheib, Donald Drake	Bus (SS)	56½	• † Urbana
Scheib, Howard Glenn	SS	2	• † Urbana
Scheib, Margaret Jean	LAS (SS)	5	• † Urbana

Scheinman, August J	Law	38 $\frac{1}{2}$	* † Urbana
Scheinman, Fred William	CE	53 $\frac{1}{2}$	* † Urbana
Schell, Lillian Katharine	HEAgr	99 $\frac{1}{2}$ $\frac{1}{2}$	* † Polo
Schell, William Robertson	LG	60 $\frac{1}{2}$	* † Wichita, Kansas
Schenck, Ralph Edwin	Arch	76	* † Urbana
Schenck, Richard Norton	Bus		* † Elmwood
Schenke, William Fred	SS		* † Oconto, Wisconsin
Schenkel, Elmer Henry	Agr	24	* † Chicago
Schenker, Benjamin	ME	2 $\frac{3}{4}$	* † Chicago
Scher, Arthur W	Ath		* † Benton Harbor, Michigan
Schick, Lincoln George	Bus	12	* † Clearwater, Florida
Schickedanz, Haldean Warren	Agr		* † Pontiac
Schierbaum, Carl William	Agr		* † Stronghurst
Schierbaum, Edna Hulda	HEAgr	66	* † Stronghurst
Schierbaum, Ethel Helen	HELAS	70 $\frac{1}{2}$	* † Stronghurst
Schiffin, Philip Herman	Bus	96 $\frac{1}{2}$	* † Chicago
Schilling, Else Ernestine	SS	6 $\frac{1}{2}$	* † Bloomington
Schilling, Melaine Anna	Chem	102 $\frac{1}{2}$	* † Chicago
Schlacks, Nicholas Francis	ME	39 $\frac{1}{2}$	* † Chicago
Schlappizzi, Fred Henry	Bus	33 $\frac{1}{2}$	* † St. Louis, Missouri
Schlechter, Herbert Walter	CE	30	* † Fessenden, North Dakota
Schlesinger, David	ChE	62	* † Chicago
Schlesselman, Louise Ida	SS	55	* † Lafayette, Indiana
Schlosser, John Jacob	Bus	104	* † Phoenixville, Pennsylvania
Schluter, Harold John	IndA	21	* † Moline
Schlutius, George William	AE	38 $\frac{1}{2}$	* † St. Louis, Missouri
Schmaelzle, Otto Ignatius	Ed	100 $\frac{1}{2}$	* † Charleston
Schmalmaack, Charles Louis	EE (SS)	61 $\frac{1}{2}$	* † St. Louis, Missouri
Schmidt, Helen Louise	Bus		* † Elgin
Schmidt, Minnie Mae	Bus		* † Wilmette
Schmidt, Walter Eugene Starr	Bus	15	* † Chicago
Schmitt, Arthur Earl	EE (SS)	107 $\frac{1}{2}$	* † Mt. Vernon
Schmitt, Carroll Peter	EE	5	* † Warsaw
Schmitt, Elsa	Jnl		* † St. Louis, Missouri
Schmitt, Joseph Stelbrink	LAS	27	* † Peoria
Schmitz, Herbert John	CE	61 $\frac{1}{2}$	* † Chicago
Schmoeller, Arthur William	Accy	69 $\frac{1}{2}$	* † Alton
Schmolze, Paul Eugene	ChE	34 $\frac{1}{2}$	* † Chicago
Schnaus, Edwin Dewey	AE		* † St. Louis, Missouri
Schneider, Arthur Charles	Ath	8	* † Earlville
Schneider, Esther Frederica	HELAS (SS)	94 $\frac{1}{2}$	* † Urbana
Schneider, Evelyn Julia, A.B., 1918	SS	8	* † Louisville, Kentucky
Schneider, William Bal	Bus		* † Waterloo
Schnellbacher, Elmo Emil	LAS		* † Quincy
Schnellbacher, Jacob Paul	Bus	107 $\frac{1}{2}$	* † Peoria
Schock, William Vierling	Agr	72	* † Albion
Schoeffler, Henry John	Bus	8	* † Alton
Schoeffler, Oscar August Edmond	Bus	47 $\frac{1}{2}$	* † Alton
Schoenheider, George Arthur	Bus	29 $\frac{1}{2}$	* † Peoria
Schoening, Earl Frederick	Bus	64 $\frac{1}{2}$	* † Chicago
Scholfeld, John Dixon	LAS		* † Marshall
Scholz, Jessie Pauline	LAS	68 $\frac{1}{2}$	* † Chicago
Schonweiler, Frank Edwin	Bus		* † Davenport, Iowa
Schooley, Clarence Herschel	Bus	36	* † Effingham
Schooley, David	Bus	44 $\frac{1}{2}$	* † Kimmunity
Schoonover, Eugenia	LAS (SS)	82	* † Urbana
Schori, John Wheeler	MedP	28	* † Elmwood
Schorr, Arthur Melville	Agr		* † Chicago
Schott, John Theodore	EE	106 $\frac{1}{2}$	* † Quincy
Schrader, Dayton Oscar	Law		* † Bridgeport
Schrader, Frances Emma	Mus	26	* † Clifton
Schrader, Frederic Porter	CE	34	* † Clifton
Schreiber, Bernard M	Bus	28	* † Chicago
Schreiber, Nathan	LAS	100 $\frac{1}{2}$	* † Chicago
Schrepfer, Frank Andrew	Voc esp		* † Chicago
Schrieber, Edwin Henry	SS	129 $\frac{1}{2}$	* † St. Louis, Missouri
Schriner, Ernest Merle	FOM	38	* † Elgin
Schrock, Clayton Bazel	ME	34	* † Chatsworth
Schroeder, Bernard Anthony Edward	ME	4	* † Wilmette
Schroeder, Lucile Kathleen	LAS	30	* † Geneseo
Schroeder, Paul Otto Edward	Bus	4 $\frac{1}{2}$	* † Altamont
Schroeder, Ralph Minson	CE	37	* † Decatur
Schroeder, William Christopher	Accy		* † Lansing
Schroyer, Malcolm Edward	LAS	100 $\frac{1}{2}$	* † Pontiac
Schueler, Walter Francis	ChE	41	* † Niagara Falls, New York
Schuessler, Robert Lee, B.S., 1919	SS	131	* † Ashland, Alabama
Schuettnner, Arthur James	SS	3 $\frac{1}{2}$	* † St. Louis, Missouri
Schuh, Charles Redden	Bus (SS)	104	* † Cairo
Schujahn, Irene Katherine Marie	LAS	61 $\frac{1}{2}$	* † Mount Olive
Schuldt, Elmer Frederick	ChE		* † Chicago
Schuler, Dement	Bus (SS)	117 $\frac{1}{2}$	* † Dixon
Schuler, George Louis	ME	32	* † Dixon
Schulte, Herman Charles	Agr		* † Havana
Schultz, Clarence John	ForC	67 $\frac{1}{2}$	* † Chicago
Schultz, Clarence William	EE	129 $\frac{1}{2}$	* † Harvard
Schultz, Frank Arthur	ME	4	* † Bloomington

Schultz, Mary Louise	SS	8	Monticello
Schulz, Myrtle	Jnl		* † Riverside
Schulze, Emory Martin	LAS		* † Kankakee
Schumann, Irene Patricia Mary	LAS	21½	* † Chicago
Schureman, Jean Luther	Bus		* † Rockford
Schutt, Arthur Robert	Bus		* † Harvard
Schutt, Walter William	Agr	61½	* † Barrington
Schwagmeyer, Emil Henry	Accy (SS)	98½	* † Quincy
Schwalbe, Mrs. Isabelle Sanderson	LAS	76	* † Urbana
Schwartz, Frank Paul	Accy sp	37½	* † Ambia, Indiana
Schwartz, Irma Gertrude	Bus		* † Salem
Schwartz, Manuel Thomas	Bus		* † Quincy
Schwarze, Lewis John	Bus	8	* † Freeport
Schwarzlose, Frederick William	Agr	68	* † West Salem
Schwarzman, Ross David	Bus		* † Normal
Schweich, Edward Frank	ChE		* † St. Louis, Missouri
Schweich, Julius Sachs	Chem (SS)	99½	* † St. Louis, Missouri
Schweitzer, Benjamin Cecil	Bus	116½	* † Mt. Carmel
Schweitzer, Edward Charles, Jr.	Bus	32½	* † Chicago
Schwenk, Elwood Edgar	AE	33½	* † Rock Falls
Sconce, Frances Emily	LAS	83½	* † Sidell
Sconce, Phil Sheridan	Agr	8	* † Danville
Scopes, John Thomas	Chem		* † Salem
Scott, Eugene Willis	Bus	1	* † Monmouth
Scott, George Harvey, A.B., 1896	SS		* † Jacksonville
Scott, John Quinton	Agr	32½	* † Vapella
Scott, Leonore Sarah	HELAS	61	* † Venice
Scott, Marvin Joseph	C & L	31½	* † Grayville
Scott, Mary Stanhope	LAS (SS)	92	* † Lampasas, Texas
Scott, Orval Glenn	Bus	2½	* † Camargo
Scott, Otto Roman	MedP		* † Chrisman
Scott, Russell	ME		* † Evanston
Scott, Sidney Glenn	Bus	80	* † Champaign
Scott, Sir Walter	Bus		* † Chrisman
Scott, Theodore John	Bus	11½	* † Venice
Scott, Thomas Craig	MedP		* † Lexington
Scott, Wellington Whitaker	Bus	45	* † Grundy Center, Iowa
Scott, William Arthur	SS	8	* † Jacksonville
Scranton, Laurell Lucy	Agr	33	* † Charleston
Scrogin, Sarah E	Mus	8	* † Lexington
Seaman, James Francis	ME	58	* † Springfield, Missouri
Sears, Margaret Denton	LG (SS)	36	* † Urbana
Searson, Marguerite Dallas	SS	8	* † Alda, Nebraska
Seaton, Irene	Jnl	58	* † Quincy
Sebastian, Emil Leonard	Agr		* † Aurora
Sedgley, Arlos R	Arch	115½ <sub>42</sub>	* † Omaha, Nebraska
Sedgwick, Edward Livingston	Bus		* † Peoria
Seed, Verl Rue	C & L		* † Urbana
Seehausen, Paul	Ed (SS)	90	* † Chebanse
Seelig, Lester	ChE	17½	* † Chicago
Seelye, Katharine Elizabeth	Mus sp		* † Dobbs Ferry, New York
Seever, Samuel	Agr sp	11½	* † Chicago
Segur, Harold Weaver	Bus	8	* † Watseka
Sehnert, Walter Ellis	Bus	8	* † Chicago
Seibert, Clarence Samuel	ME	24	* † Riverside
Seibert, George Clement	AE (SS)	103½	* † Altamont
Seidenbecker, Fred Swinford	ForC		* † Hammond, Indiana
Seiler, Rex Hanna	Bus	20	* † Pana
Seitz, Charles Frederick, Jr.	Bus	22½	* † Chicago
Self, Nelle Frances	SS	7½	* † Jacksonville
Sellards, Glenna Ione Mae	SS	4	* † Waynesville
Selleck, John Helton	Ath		* † Onawa, Iowa
Sellw, Martha	HEAgr		* † Mattoon
Sellmer, Helen Emma	LAS	98	* † Moline
Selsam, Beulah Elizabeth, A.B., 1915	SS	130	* † Indianapolis, Indiana
Sen, Chi Ming	SS	10½ <sub>42</sub>	* † Tong Cheng, China
Senn, Erwin Oliver	Chem (SS)	8	* † Highland
Setinsky, Jerry Henry	CE sp		* † Onarga
Seward, Doris Neomia	LAS	96½	* † Watseka
Sewell, Augusta Fern	Mus	26½	* † Monticello
Sexauer, Esther Marie	LAS		* † Belvidere
Sexauer, Howard Theodore	Agr	35½	* † Belvidere
Sexton, James Monroe	SS		* † Independence, Missouri
Seymour, Arthur Romeyn, B.L., 1894, M.L., 1897, Ph.D., 1967	Mus irr		* † Urbana
Seymour, Bliss Alberta	LAS	63	* † Hillsboro
Seymour, Burleigh Beaumont	MinE (SS)	63	* † Benton
Seymour, Russell	AE	50	* † Oakwood
Shaddle, Lee Norton	Agr	53	* † Area
Shaddock, Rolla Edward	Agr	99½	* † Macon
Shade, Claude Cloide	Agr (SS)	111½	* † Urbana
Shade, Dorothy	LAS	98	* † Champaign
Shade, Mary Marguerite	LAS (SS)	100½	* † Montpelier, Indiana
Shand, Edwin William	ChE	28	* † Riverside
Shand, Richings James, Jr.	LAS	18½	* † Springfield
Shannon, George Albert	SS	6	* † Clay City

Shanoff, Samuel Benjamin	Bus		* † Chicago
Shapiro, Abraham	ME	99½	* † Chicago
Shapiro, Ben	Arch	106	* † St. Louis, Missouri
Shapiro, Jacob	ChE	32½	* † Chicago
Shapiro, Sam	Bus		* † Chicago
Shapiro, Sam Oliver	Jnl		* † Chicago
Shapley, Ralph Peterson	FOM	95	* † Rockford
Sharp, Abia Morris	CE		* † Urbana
Sharp, Edith Clare	SS	8	* † Springfield
Sharp, Elizabeth Josephine	Bus	22½	* † Urbana
Sharp, Henry Cordes	ME	29½	* † Chicago
Sharp, Mary Marguerite	LAS		* † Urbana
Sharpe, Byron C	EE		* † Chicago
Shastry, Medha Nath	Bus		* † Calcutta, India
Shattuck, Richard Kenneth	Chem		* † Oak Park
Shaver, Dwight Wendell	ForC		* † Gibson City
Shaver, Elizabeth Fritzen	SS	30½	* † Gibson City
Shaw, Benjamin Thomas	EE (SS)	66	* † Dixon
Shaw, Delia	HELAS	101½	* † Rockport
Shaw, Ella May	SS	4	* † Dixon
Shaw, Forest Perry	Agr		* † San Jose
Shaw, Howard Chase	ME (SS)	32½	* † River Forest
Shaw, Robert Eustace	Bus		* † Dixon
Shaw, Wilfred	Agr	94	* † Marshall
Shawhan, Edwin Lawrence	EE		* † Maywood
Shawhan, Mercy Nadine, A.B., 1919	SS	136	* † Metcalf
Shawl, Ray Iris, B.S., 1916, M.S., 1919	Mus irr		* † Champaign
Shawvan, Harry Edward, Jr.	AE		* † Oak Park
Shay, Lester Roy	ME		* † Pontiac
Sheadle, Gertrude Steele	LAS	92½	* † Rochelle
Shedden, Forest Robert	REE	106	* † Elgin
Shedden, Russell Norton	ME	32½	* † Elgin
Shedden, Warren Leonard	Chem		* † Dundee
Sheehy, Lawrence Walter	ME		* † Chicago
Sheets, Edward Bernard	EE	21½	* † Lincoln
Sheldon, Beulah Mulford	LAS	101½	* † Chicago
Shellbarger, Charles Thatcher	Arch	8	* † Decatur
Sheller, Charles Henry	Bus	35½	* † Manchester, Indiana
Shellman, Elmer William	Agr	15½	* † Gibson City
Shelp, Harold Jay	ChE	8	* † Medina, New York
Shepard, Eva Lucille	Jnl	54	* † Roachdale, Indiana
Shepard, Marjorie	HELAS		* † Chicago
Sheppard, Leila Margaret	Mus	103½	* † Edwardsville
Sheppard, Nancy Pauline	LAS	6	* † Herrin
Sheppard, Paul Richard	LAS	89	* † Eaton, Colorado
Sherertz, Everett Lorren	CE	30½	* † Marion
Sherlaw, Fleming Murray	Agr	81½	* † Urbana
Sherlaw, Mrs. Grace Edith	HEAgr sp		* † Urbana
Shermak, Albert	LawP sp	14½	* † Chicago
Sherman, Leta Elmira	SS	91½	* † Casey
Sherman, William Tecumseh	SS	7½	* † Chicago
Sherwood, Bertrand Clark	EE	11½	* † Chicago
Sherwood, Clare Dee	CE		* † Lake Villa
Shewhart, Harry Anthony	Jnl	29½	* † New Canton
Shewmon, Joe Allen	Agr	106	* † Oak Park
Shipley, Wendell Watson	ME		* † Martinsville, Indiana
Shipp, Jesse Allen	Agr		* † Carlisle
Shirley, Blanche Gertrude	Jnl	60½	* † Benton
Shirley, Helen Frances	LAS	10½	* † Elgin
Shively, Alan Arnold	ME	66	* † Fargo, North Dakota
Shlaudeman, Harry Ricker	CE	110	* † Pasadena, California
Shoemaker, Fred Raphael	ME	8	* † Jacksonville
Shols, William Theodore	EE		* † Chatsworth
Shonkwiler, James Leslie	Bus		* † Raub, Indiana
Shonkwiler, Robert Payson	LawP	62½	* † Monticello
Shoop, Arnold Chaney	Bus	42½	* † Washington, Ohio
Shoop, Edwin Perrill	ME		* † Champaign
Shoot, Tilford Taylor	Agr sp		* † Charleston
Shore, Emma Pearl, A.B., 1909	SS	11	* † Chandlerville
Shore, Helen Juanita	HELAS		* † Hutsonville
Short, George William	ME	85½	* † Granite City
Shrimplin, Pearl Marie	HELAS		* † Sheldon
Shroyer, David Mirven	Agr	117	* † Urbana
Shrum, Edmond Jerome	Agr	94½	* † Valley City, North Dakota
Shryock, Gerald Snider	Bus		* † Canton
Shryock, Lyle William	Agr	63	* † Canton
Shulhafer, Richard Clare	Bus		* † Champaign
Shultz, Helen Maude	HELAS	33	* † Shipman
Shumaker, Gertrude Marguerite	Agr	42½	* † Butler, Indiana
Shuman, Frank Hamilton	Agr		* † El Paso
Shumate, Kenneth Wilson	ME		* † Quincy
Shurtz, William Gooding	MedP	28	* † Saskatchewan, Canada
Shutt, Adra Lillyan	Mus	24	* † Champaign
Shuttleworth, Parnell Quincy	Bus		* † Idaho Falls, Idaho
Sibert, Llewellyn	Agr sp		* † Jonesboro, Arkansas
Sickles, Trent D	Bus	45	* † Potoskey, Michigan

Sickman, Florence Anne	Mus	32	* † Urbana
Sideman, Abner	Bus		* † Chicago
Sideman, Gertrude	CCS		* † Chicago
Siebert, Walter Joseph	MedP	31½	* † St. Louis, Missouri
Siecke, Kurt Hugo	CE	102½	* † Freeport
Sieglinger, Frank Vernon	Bank	99½	* † Sterling
Siegrist, Louis Arnold	Chem (SS)	72½ <sub>6</sub>	* † Highland
Siemens, George Mellin, Jr.	Bus	43½	* † Kansas City, Missouri
Sigler, Lenoire	LAS		* † Decatur
Signell, Lloyd George	CE	2	* † Rockford
Silbar, Raymond	MinE		* † Chicago
Silberman, Saul Aymen	ChE		* † Chicago
Silverman, Isadore Herbert	Ag	121	* † Chicago
Simer, Stafford Lane	SS	7	* † Monticello
Simmon, Allen Ambrose	Bus (SS)	49½ <sub>6</sub>	* † Moline
Simmons, Elwyn Leroy	AE	116½	* † Oak Park
Simmons, George Haskel	EE	110½	* † Aron
Simmons, Georgialee	LAS	22	* † Le Roy, Ohio
Simmons, Joseph Franklin	SS	7½	* † Biloxi, Mississippi
Simmons, William Harold	CE		* † Jerseyville
Simms, Elvina Inistore	HEAgr	62½ <sub>12</sub>	* † Emelle, Alabama
Simon, Arthur Charles	ChE		* † St. Louis, Missouri
Simon, Philip Jerome	ME	38½	* † Chicago
Simons, Lewis Eugene	Bus	30½	* † Chicago
Simons, Philip Gardner	ChE	52½	* † Chicago
Simpson, Clifford Clinton	Bus		* † Eterest, Kansas
Simpson, Florence Margaret	LAS		* † Vienna
Simpson, Irene Elizabeth, A.B., 1919	SS	131½	* † Pana
Simpson, Laurance Packer	Jnl	83	* † Chicago
Simpson, Merrill Willis	Bus	29½	* † Rockford
Simpson, Walter Doward	Ag	82½	* † Eureka
Sims, Lillie LaRue	LAS	60	* † Irving
Sincox, William John	Bus		* † Warren
Sindell, William Justin	ChE		* † Chicago
Sinden, Alfred DeLos	ME	75	* † Canon City, Colorado
Sinden, Edward Archibald	IndA		* † Oak Park
Singer, Raymond Barker	Bus	16	* † Urbana
Singleton, Roscoe Elwood	LAS		* † Springfield
Singmaster, Helen Mary	LAS		* † Keola, Iowa
Sissons, Frances	LAS		* † Modesto
Sisty, Robert Arthur	SS	5½ <sub>6</sub>	* † Surprise, Nebraska
Sivlerling, Milo Trow	IndA		* † Albert Lea, Minnesota
Six, Harvey Presley	Bus		* † Broadlands
Skelly, Ernest James	Bus	84½	* † Davenport, Iowa
Skelton, Arthur	Bus		* † Fairfield
Skemp, Edith Elizabeth	LAS	45	* † Maywood
Skidmore, James Edward	Ag	45	* † Chicago
Skiles, Earl William	Bus	27½	* † Grayville
Skinner, Bertram Eugene, B.S., 1919	SS	130½	* † Chicago
Skinner, James Madden	MinE	30	* † Joliet
Skinner, Melvin Benjamin	REE	107½	* † Salem
Skirow, Jack	CE	34½	* † Chicago
Skoglund, Herbert Le Roy	LG	53	* † Red Wing, Minnesota
Skoglund, Reuben Adolphus	LG	93½	* † Red Wing, Minnesota
Slack, Clara Mary	LAS		* † Spring Valley
Slack, Samuel Sanford	Ag		* † Urbana
Slaght, Leroy Evert	IndA	90	* † Chicago Heights
Slagle, David Carlton	LAS	48½	* † Chicago
Slater, George Wilson	ME	4	* † Hinsdale
Slater, Maurine Phyllis	LAS		* † Mansfield
Slater, Ralph Gardner	Ag	33	* † Aurora
Slater, Sara Maria	SS	3	* † Urbana
Slatten, Margaret	HEAgr	72	* † Taylorville
Slughter, Harvey Leroy	Bus	30	* † Denver, Colorado
Sleezer, Marion Winnifred	LAS	17½	* † Paxton
Sleight, Hazel Evelyn	HELAS		* † Griggsville
Siepyan, Dorothea Sara	LAS		* † Chicago
Sloan, Arthur William	Chem	36	* † Urbana
Sloan, Gladys Pauline	LAS	26	* † Odin
Slocum, Russell Wade	Ag (SS)	100½	* † Chicago
Small, Bonny	Bus sp		* † Brooklyn, New York
Small, Dee	Ag	64	* † Galatia
Small, John Clifford	Ag		* † Galatia
Small, Tryphosa Eliza	HEAgr	12	* † Urbana
Smallwood, Glen S	EE	8	* † Decatur
Smart, Howard Harlow	Ag	63½	* † Scales Mound
Smejkal, Richard Edward	CE	48½	* † Chicago
Smiley, Earl James	CE	101	* † Elgin
Smith, Agnes Robertson	SS	4	* † Springfield
Smith, Alfred Andrew Kittoe	Bus	23½	* † Chicago
Smith, Ambrose Everett Carroll	MedP		* † Atlanta, Georgia
Smith, Asaasy Charlotte	LAS		* † Ecanston
Smith, B Howard, Jr.	Jnl	88½	* † Kansas City, Missouri
Smith, Bryan Waldo	LAS spp	24	* † Freeburg
Smith, Cecil Maxey	LaveP	36	* † East St. Louis
Smith, Cecil Ray	C & L	35½	* † Marion



Smith, Charles Cobb	EE (SS)	67½	* † Chicago
Smith, Charles David	Agr		* † Indianapolis, Indiana
Smith, Charles Raimor	MedP	57	* † Georgetown
Smith, Charles Wilson	SS	7½	* † Urbana
Smith, Cloyde Moffett	MinE (SS)	115½	* † Champaign
Smith, Clyde Everett	CE	66½	* † Kansas City, Missouri
Smith, Consuelo Joy	SS	7	* † Columbia
Smith, Daniel Willard	LAS	65	* † Bellflower
Smith, David Galbraith	Agr	4½	* † Carthage
Smith, David Allan	Agr		* † Urbana
Smith, Da Von	EE	49	* † Urbana
Smith, Denzil	Voc tsp		* † Pawnee
Smith, Dorothy Margaret	LAS	32	* † Champaign
Smith, Dudley Galusha	Agr	½	* † Peoria
Smith, E Millard	LAS	3	* † Chicago
Smith, Edmund Joseph	LAS (SS)	95½	* † Chicago
Smith, Eleanor	LAS	33½	* † Chicago
Smith, Elmon Leo	Bus		* † Mattoon
Smith, Eloise	LAS		* † Urbana
Smith, Emily Evelyn	HEAgr (SS)	67	* † Urbana
Smith, Eugene Frederick	ME	41½	* † Chicago
Smith, Eugene Russell	CE	8	* † Carbondale
Smith, Eunice Edwina	LAS	99	* † Chicago
Smith, Evaughn Hope	LAS	27	* † Otterbein, Indiana
Smith, Floyd	SS	6½	* † Mt. Vernon
Smith, Forest Henry	EE	111	* † Libertyville
Smith, Fred Ernest	Chem	29	* † Urbana
Smith, George Andrew	Bus		* † Lafayette, Indiana
Smith, George Edward	FOM	80	* † East Lynn
Smith, Gilbert	SS		* † Hermannville, Mississippi
Smith, Harold B	Voc tsp		* † Kings
Smith, Hawley Lester	Jnl	101	* † Clifton
Smith, Henrietta Eleanor	LAS	30½	* † Rock Island
Smith, Howard Jay	Bus		* † Wabash, Indiana
Smith, Howard Louis	Bus		* † Pekin
Smith, Howard Vernon	Agr		* † Urbana
Smith, Hughes Blake	Jnl	8	* † Newman
Smith, Ione Margaret	LAS	70½	* † Los Angeles, California
Smith, James Barton	LAS	2	* † Ringling, Oklahoma
Smith, James Clark	Bus	23	* † Chicago
Smith, James Henry	Voc tsp		* † Macomb
Smith, Jesse Carl	Agr	8	* † Vandalia
Smith, Jennie Marie	SS	79½	* † DuQuoin
Smith, Joseph Edward	ME (SS)	78½	* † Chicago
Smith, Julian Augustus	EE	8	* † Moline
Smith, Julian Denton	Flor		* † Far Rockaway, New York
Smith, Kenneth Hamilton	LAS	113	* † Chicago
Smith, Kenneth Leslie	AE	3½	* † Aurora, Indiana
Smith, Laura Eleanor	LAS	59	* † Urbana
Smith, Lawrence De Vere	Bus	18½	* † Milford
Smith, Leland Cross	Bus		* † Godfrey
Smith, Leslie Denzil	ME	½	* † Oakwood
Smith, Lloyd Lorenzo	RME	46	* † McComb, Mississippi
Smith, Mabel Elizabeth	Mus		* † Fairbury
Smith, Mace Mary	LAS		* † Clinton
Smith, Manley Rogers	EE	8	* † Richfield
Smith, Mrs. Margaret Morris	LAS	50	* † Buford
Smith, Marian Esther	LAS	31½	* † Champaign
Smith, Marion Louise	LAS	88½	* † DuQuoin
Smith, Marjorie Lois	Bus	30	* † Rantoul
Smith, Mark Burton	AE		* † Dixon
Smith, Mary Eloise	HELAS	13	* † Mattoon
Smith, Maybelle Pritchard	LAS	34	* † Dixon
Smith, Morris Horatio	Bus	38½	* † West Lafayette, Indiana
Smith, Niles Bainbridge	ME	58½	* † Birmingham, Alabama
Smith, Norman Joseph	Agr	8	* † Mt. Carmel
Smith, Olive Louise	LAS		* † Yorkville
Smith, Oliver Francis	FOM	65½	* † Broadlands
Smith, Ora	EE		* † Freeburg
Smith, Orion Otis	Bus (SS)	41	* † Oakwood
Smith, Orloff Elmer	Bus	77½	* † Lane, Kansas
Smith, Orrin Richard	Law		* † Plainfield
Smith, Oscar Byron	Bus	8	* † Broadlands
Smith, Oscar Pearce	Arch		* † Greenville
Smith, Oscar Ray	EE	28	* † Urbana
Smith, Pearl Marie	SS	78½ <sup>12</sup>	* † Kirkwood
Smith, Rachiel Mary	Mus	40	* † Amboy
Smith, Raymond Charles	Agr	106	* † Amboy
Smith, Robert Homer	ME	4	* † Indianapolis, Indiana
Smith, Roland Wesley	Bus		* † Chicago
Smith, Ruth Harriet	LAS	32½	* † Amboy
Smith, Stanley Constable	Agr	4	* † Chicago
Smith, Steadman Garretson	LawP	65	* † Chicago
Smith, Stuyvesant Chatteris	ME	37	* † Evanston
Smith, Thurston Woods	Bank	35½	* † Albion
Smith, Walter Edwards	CrE		* † Joliet

Smith, Walter Nelson	LAS		• New Canton
Smith, Walter Thomas	Jnl	10½	† Oakwood
Smith, William Franklin	ME	45	• Denver, Colorado
Smith, William McKinley	Voc vsp		• Mason
Smith, Wilson Dee	Bus	28	• Geneseo
Smithers, Wilson Cook	ME (SS)	26	• Wilmette
Smolowich, Edwin	Agr		• Chicago
Smoot, John Irvin	Arch		• Homer
Smouse, Clark J	Bus		• Morrison
Smysor, John Leland	Agr	38	• Windsor
Snapp, Marian Gabelle	HELAS		• Georgetown
Snively, Leo David	Agr		• Sterling
Snell, Gertrude Margaret	LAS	32½	• Oak Park
Snell, Myron Alonzo	ChE	38½	• Oak Park
Snively, Clifford Herold	Bus		• Freeport
Snively, Hubert Kling	Agr	8	• Chicago
Snoddy, Sherman	Bus		* Redman
Snook, Harry Guilford	EE	70% <sub>6</sub>	• Chicago Heights
Snow, Beatrice Nordica	Jnl	79½	• Chicago
Snow, Paul Donald	EE		• Winnetka
Snyder, Carl Huston	IndA		• Neoga
Snyder, Daniel Victor	CE	62	• Chicago
Snyder, Harold Vesey	LAS	95	• Rockford
Snyder, Harry William	EE	91	• Allon
Snyder, Joseph Charles	CE		• Mt. Pulaski
Snyder, Mabel Ruth	Bus		• Neoga
Snyder, Paul D	Bus		• Des Moines, Iowa
Snyder, Willard Ayres	Arch	86% <sub>6</sub>	• Mt. Pulaski
Soderberg, Harry	AE	114	• Florence, Wisconsin
Soderberg, Victor Lionel	EE		• Chicago
Sohn, Howard Brigham, A.B., 1908	Lb	32½	• Urbana
Sohn, Mrs. Margaret Bixler	Mus sp (SS)		• Urbana
Soldwedel, Cornelia	HEAgr	6½	• Pekin
Sollars, Pauline Elizabeth	SS	8	• Decatur
Solov, Hyman	Agr		• Bayonne, New Jersey
Somers, Francis Martin	ME	23½	• Champaign
Somers, Francis Patrick	Chem (SS)	90	• Kankakee
Somers, Helen Frances	HELAS	27½	• Urbana
Somers, Mary Abigail	LAS		• Urbana
Somers, Paul Peter	Chem (SS)	110½	• Kankakee
Somers, Roland Burrill	ME	33½	• Chicago
Somers, William Frank	CE	8	• Rockford
Sommer, Paul Nathaniel	Bus		• Farmer City
Sontag, Raymond John	ForC	97½	• Chicago
Sorenson, Marie Nelsena	HELAS	22½	• Savanna
Sorells, Roy La Velle	Agr	2	• Jacksonville
Sortor, Ralph Frederic	ME	16	• Kansas City, Kansas
Sosna, Blanche Jacqueline	HELAS		• Rock Island
Sosna, Goldye Hanna	Jnl		• Rock Island
Souders, Martin William	SS	7% <sub>6</sub>	• Auburn, Nebraska
Soule, John Edward	CE	34½	• Chicago
Southard, Edward Oliver	Bus	44	• Elgin
Souza, Paulo Cuba	Agr (SS)	69½	• Sao Paulo, Brazil
de Souza-Soares, Affonso Brochado	RCE	47	• Porto, Portugal
Sowers, Herbert Taggart	LAS	23½	• Streator
Sowers, Mildred Lucille	LawP	71	• Petersburg
Sowle, Stuart Orlando	Agr	2	• Rockford
Spang, Charles Edmond	Agr		• Georgetown
Spangler, Rodney Eugene	Arch	82½	• Amboy
Sparberg, Max Shane	ChE	3	• Chicago
Sparks, Lowell De Forest	LAS		• Indianapolis, Indiana
Sparks, Mary Elizabeth	HELAS	30	• Lincoln
Sparks, Thomas Wendell	Agr	4	• Lincoln
Spates, Alfred	LAS	28½	• Taylorville
Spates, Gladys Mary	HELAS (SS)	102½	• Taylorville
Speakman, John William	LAS	8	• Danville
Spelce, John Edward	ChE	115	• Sycamore
Spelman, Archibald Edwards	LAS		• Olney
Spence, William Kenneth	ME	31½	• Chicago
Spencer, Alvin Cheshire	Bus	8	• Magnolia
Spencer, Mrs. Blanche Beebe, A.B., 1919	SS	136½	• Vandalia
Spencer, Charles Samuel	Chem (SS)	30½	• Champaign
Spencer, Egbert Gerald	Jnl		• Rushville
Spencer, Grace Greenwood	LAS	46	• Payson
Spencer, Hildreth Marion Louise	HEAgr		• West Salem
Spencer, John Ralph	Agr	102	• Geneseo
Spencer, Mable Agnes	LAS	48½	• Payson
Spencer, Walter William	SS	8	• Magnolia
Spengle, Freda	SS	7	• Highland
Spenko, George H	SS		• Champaign
Sperling, Ernest Boyd	Accy	5½	• Urbana
Sperry, Clarence Edgar	REE		• Allon
Spicer, Lee Milne	ChE		• Gray, Canada
Spicer, Ralph Faraday	AE	34½	• Joliet
Spiegler, Louis	ChE	119	• Chicago
Spilver, George Searles	Chem	33½	• Chicago

Spindler, Carl John	ME	106½	* + Peoria
Spindler, Walter Herbert	CE	109½	* + Peoria
Spink, Philip Marion	Bus	100½	* + Chicago
Spira, Leo	Chem	42	* + Chicago
Spoerer, George Richard	Chem		* + Chicago
Spofford, Franklin Dawson	EE	107	* + Warren
Sponsler, Gertrude	LAS	57	* + Hutchinson, Kansas
Sprague, Alice Cornelia	HEAgr	30½	* + Lockport
Sprague, Pulford Howe	ForC	107½	* + Sheffield
Sprague, George Chester	Agr	91	* + Lockport
Springer, Lloyd Ashbury	EE	60½	* + Springfield
Springston, George Baillie	Law	57½	* + Peoria
Spurgin, Margaret Katherine	Arch		* + Ottawa
Spute, Glenn Palmer	EE		* + Depue
Squier, Arthur Augur	ME	32	* + Rockford
Strout, Hester Dorothy	HELAS		* + Pontiac
Stachel, Edward Henry	EE	8	* + Glencoe
Staehele, Ida Marie	LAS sp	15	* + Joliet
Stafford, Edward Emerson	Bus	96½	* + Alton
Stahl, Archie Edward	EE		* + Alton
Stahl, Cecil Norman	Bus	31½	* + Alton
Stahl, Chester Dewey	EE	100½	* + Urbana
Staley, Elmer George	ME	73½	* + Le Roy
Stallings, Eugene Michener	ChE	93	* + Danville
Stallings, Mrs. Katherine Davis	Mus	26	* + Champaign
Stallings, Mrs. Olive Belle	SS		* + Granite City
Stambaugh, George Vivian	EE	2	* + Hereford, Texas
Stamberg, Frank Ford	MinE	78	* + Chicago
Stanford, Mabel Julia	HEAgr	31½	* + Forrest
Stanford, Ralph Fletcher	EE	33½	* + Loda
Stanford, Rolland Clinton	CE	8	* + Ishpeming, Michigan
Stanley, Basil Lavon	Ath	22	* + New Carlisle, Indiana
Stanley, Ethel Marguerite	SS	33	* + Chula Vista, California
Staples, George McLellan	Bus	18	* + Dubuque, Iowa
Staples, Raymond	CE	18½	* + South Bend, Indiana
Stark, Julian Howard	EE		* + Hume
Stark, Max William	Bus	31	* + Hume
Stark, Roland	Bus	8	* + Westville
Starkes, Reuben Payne	Jnl	30½	* + Metropolis
Starr, Elva Elizabeth	LAS		* + Anderson, Indiana
Starr, Howard De Lacy	ChE	24	* + Anderson, Indiana
Starr, Sidney Keller	Agr	81½	* + Belvidere
Stassen, Carl Henry	Accy		* + Peotone
Stateler, Ozell Trask	Agr	85½	* + Varna
Stauder, Oscar Frank	ME	71½	* + Chicago
Stearns, Leonard Thomas	Bus		* + Marion
Steckbauer, Clifford Earl	MedP		* + Chicago
Steel, Rowe	LawP	3	* + Urbana
Steele, Althea Rose	HELAS	96	* + Havana
Steele, Frederick Abbott	ChE	2½	* + South Bend, Indiana
Stege, George Richard, Jr.	ChE (SS)	64½	* + Chicago
Stegemeier, Richard Conrad	Bus	1	* + Indianapolis, Indiana
Stegenga, Gladys	Mus	26½	* + Thornton
Steidl, John Henry Joseph Haase	LAS (SS)	98½	* + Paris
Stein, Adam Edward	Bus		* + Sibley
Stein, Elizabeth	SS	3½	* + Murphysboro
Stein, Herman William	CE	40½	* + Chicago
Steinbach, Carl, Jr.	ME	22½	* + Chicago
Steinberg, Harry	MedP		* + Spring Valley
Steinberg, Naomi Annette	Mus	14	* + Chicago
Steiner, Jeannie Verle	HELAS	98½	* + Morrison
Steinert, Hildur Edith	LAS	67½	* + Chicago Heights
Steinert, Lars Erik Theodore	LAS		* + Chicago Heights
Steingraber, Fred Carl	EE		* + Dallas City
Steinhauser, Emma Mary	HELAS		* + Berwyn
Steinhauser, William August	AE	60	* + Berwyn
Steinman, Clarence Joseph	ME		* + St. Louis, Missouri
Steinmetz, John Armand	Bus	47½	* + Pekin
Steinwedell, William	IndA		* + Cleveland, Ohio
Stemwell, William	CE	6½	* + Maywood
Steninger, Raymond Byron	SS	½	* + Lincoln
Stephens, Ethel Gertrude, A.B., 1917	SS	130	* + Murphysboro
Stephens, Mark William	Bus	6½	* + Valparaiso, Indiana
Stephens, Ross	SS	9	* + Urbana
Stephens, William Theodore	EE	123½	* + Champaign
Sternaman, Edward Carl	ME	109½	* + Springfield
Sternaman, Joe Theodore	ME		* + Springfield
Sterzik, Rupert Allison	CE	21½	* + Maywood
Stetler, Roland Guest	CE		* + Chicago
Steurer, Irving Charles	ForC		* + Garden Prairie
Stevens, Albert Beveridge	MinE	2½	* + Columbus, Indiana
Stevens, Arthur Merchant	Bus		* + Chicago
Stevens, Clifford Baldwin	LAS	8	* + Wichita, Kansas
Stevens, Frances Lucile	HELAS		* + Urbana
Stevens, George Ernest	Agr sp		* + Laidig, Pennsylvania
Stevens, Helen Ford	LAS	82	* + LaSalle

Stevens, Marie Felicia	HELAS (SS)	113	† St. Louis, Missouri
Stevens, Raymond La Moine	Accy	70	† Champaign
Stevens, Roger Greenleaf	ChE	95½	† Chicago
Stevens, Walter Judson	LawP (SS)	24½	† Champaign
Stewart, Charles Kenneth	ForC		† Fairfield
Stewart, Cyrus Byron	Agr	39½	† Carnam
Stewart, David Jackson	EE	8	† Aya
Stewart, Donald Simpson	LawP	15½	† Plainfield
Stewart, Everett Charles	Bus		† Fowler, Indiana
Stewart, Harold Kyle	Agr	10	† Charleston
Stewart, James Otto	Agr	24	† Paris
Stewart, Paul James	Ath	8	† Chicago
Stewart, Walter Vanwert	Bus	44½	† Chicago
Stewart, William Ellis	Ins (SS)	109	† Columbus, Indiana
Stewart, William Martin	Bus		† Alton
Stibolt, Noble	Bus sp		† Chicago
Stice, Ostin Angus	Agr	126	† Waverly
Stidham, Melissa Geneva	SS	98	† Mahomet
Stiegemeier, Clara Marie, A.B., 1918	SS	135½	† St. Louis, Missouri
Stiegemeier, Edna Joanne	LAS		† St. Louis, Missouri
Stimpson, Ruth Loe Ella	LAS	26½	† Gibson City
Stinson, Clarence Henry	Bus	10	† Eldorado
Stinson, Howard Willis	SHAAgr (SS)	101½	† Buda
Stipes, George Walter	Bus (SS)	48½	† Champaign
Stitt, Norman Kyle	ME		† Springfield
Stoaffer, Ollie Mae	SS	35	† Centralia
Stobie, Gladys May	HELAS	104½	† Bunker Hill
Stockham, Douglass William	ME	63	† Birmingham, Alabama
Stoek, Leigh	MedP	108	† Urbana
Stoetzel, Herbert William	Bus	8	† Chicago
Stoever, Petronilla Gertrude	HELAS (SS)		† Raymond
Stohrer, Walter Albert Fred	CE	34½	† Chicago
Stoker, Emory Dee	LAS	5	† Winnetka
Stoll, Frieda Caroline	LAS	72	† Aurora, Indiana
Stoll, Herbert Manuel	CE		† Oak Park
Stoller, Louis William	LAS	22	† Bremen, Indiana
Stoltey, Marjorie Zell	LAS (SS)	24½	† Champaign
Stone, Earle	LAS sp		† Bloomfield, Indiana
Stone, Elizabeth Louise	LAS	30	† Belvidere
Stone, Everett Wheeler	ME	30	† Evanston
Stone, George William	Agr	50	† Potomac
Stone, Harry Francis	Agr	32	† Danville
Stone, Lowell Vestry	C & L	7½	† Villa Ridge
Stone, Pearl Anjanet	SS	39½	† Strafford, Missouri
Stone, Ray Scott	ForC	2½	† Palmer
Stone, Russell Isaac	EE	2½	† Mason City
Stone, Wayne Jefferson	C & L		† Villa Ridge
Stoner, Louis Abner	RA		† Chicago
Stookey, Charles Abram, Jr.	Agr	20	† Belleville
Storer, Ben Wade	ME	36½	† Centralia
Storer, Wilson Bates	Accy		† Centralia
Stormont, John Lytle	Agr	117½	† Princeton, Indiana
Stormont, Lowell Heston	Bus	24½	† Indianapolis, Indiana
Stormont, Noble	ChE	21	† Jackson, Michigan
Stoutenborough, George Hanes	Lcw		† Maroa
Stover, Earl Bertram	REE	127	† Oak Park
Stowe, Wilda Agnes	LAS		† Champaign
Strabel, Thelma Louise	Jnl (SS)	67½	† Urbana
Strader, George Michael	AE	8	† Danville
Strandberg, Avery	MinE	18½	† Lockport
Strane, Archie Aber	CE	68½	† Marion, Iowa
Strasser, Joseph Mast	ME	23	† Joliet
Straub, Fred Guy	ChE	107½	† Champaign
Straub, Lorenz George	CE		† Kansas City, Missouri
Strauss, Evan Bryson	Bus	20½	† Gibson City
Strawbridge, Ewart	Bus	79½	† Chicago
Strawbridge, Marguerite Frances	LAS		† Maywood
Streeter, Majel Heath	SS	3½	† Fulton, New York
Strehlow, Robert	CE	70½	† Peoria
Streitmatter, Budy Mae	MedP sp		† Princeville
Strickle, Helen McLean	SS	5½	† Bloomington
Strickle, Robert McLean	Agr	20½	† Bloomington
Stringer, Harold Huddard, Jr.	Accy	2	† Dubuque, Iowa
Strode, Rudolph William	ME	12	† Harvard
Stroecker, Warren Dale	Agr	3	† Freeport
Strohm, Margaret Irene	LAS	32½	† Lorington
Strohm, Raymond Henry	Bus (SS)	70½	† Elgin
Strole, Alvey James	ChE		† Terre Haute, Indiana
Strombeck, Mearl Donald	EE	22½	† Plymouth, Indiana
Strong, Fred Harry	Bus		† Chicago
Strong, Mrs. Madeline	Mus sp		† Chicago
Stronks, William John	SS	9	† Georgetown
Stroube, Clarence Knox	Agr	5	† Urbana
Stroupe, Frank Arnold	CE		† Chicago
Strubinger, Bert Elliott	LawP	23½	† Eldara
Strubinger, Lucian Hart	Bus	24	† Barry

Struhsacker, Eugene Philip	LAS sp	36	• † Chicago
Stryker, Norman Rausavell	EE		• † Trenton, New Jersey
Stuart, Roxie Katherine	HELAS	32½	• † Quincy
Stubblefield, Roy Edison	Agr		• † Bloomington
Stubbs, Mary Christine	HELAS	70	• † Fowler, Colorado
Stubbs, Sadie Levina	Law sp (SS)		• † Lincoln, Nebraska
Stubbs, William Chisholm, Jr.	Bus	2½	• † Highland Park
Stucker, George Richard	Agr		• † Chicago
Stuckey, Eva Mildred	LAS	64	• † Altona
Stuebe, Leonard, Russell	EE	2	• † Danville
Stuebe, Louis Frank	ChE	35½	• † Danville
Stuebing, Carl Frederick	IndA		• † Chicago
Stuhr, William	Arch	61	• † Rock Island
Stumm, Frank Arthur	LAS	30	• † Yorkville
Stumpf, Wippert Arnot	Bus	34	• † Elgin
Sturdevant, Lucile Ann	LAS		* † Milford
Sturgeon, Helen Gwynne	LAS	65	• † El Paso
Sturgeon, William James, Jr.	CE		• † Wilmette
Sturm, Clark Henry	EE (SS)	114	• † Elgin
Stutzman, Clarence Franklin	Agr sp	8	• † Carlock
Stutzman, William Coe	ME		• † Buda
Styles, Dorothy	HELAS	95	• † Mokenca
Suhr, Carl John	EE		• † Belvidere
Suits, Edward Francis	ME	52½	• † Hillsboro
Sukumlyn, Stephen Williams	MedP	60	• † Kief, North Dakota
Sullins, Gladys	LAS	25	• † Marshall
Sullivan, Andrew William	CE		• † Chicago
Sullivan, Edwin Thomas	Bus		• † Indianapolis, Indiana
Sullivan, George Cornelius	ME	70½	• † Highland Park
Sullivan, Helen Raymunda	SS		• † East St. Louis
Sullivan, John Francis Thomas	EE		• † Prescott, Arizona
Sullivan, Joseph Raymond	Bus	3	• † Sheffield
Sullivan, Paul Harry	Bus		• † Attica, Indiana
Sullivan, Virgil Richard	Chem	64½	• † Urbana
Sumner, Dewey Burris	ME		• † Libertyville
Summers, Arthur Wellington	Law sp		• † Eldorado
Summers, Danah Ethel	LAS		• † Moscow, Kansas
Summitt, James Levi	LAS (SS)	114½	• † Pesotum
Sumner, Frank Lee	Agr	41½	• † Akron, Ohio
Sun, Oliver Lawrence	Bus		• † Shanghai, China
Sundar, Padma Malla	EE (SS)	67½	• † Khetmandu, Japan
Sunderland, Lloyd Wills	EE		• † Jerseyville
Sutherland, Calvin Eugene	AE	83	• † Virginia
Sutherland, Leland Goodrich	Accy	102½	• † Sioux City, Iowa
Sutherland, Mrs. Myrtle C.	SS	3½	• † Urbana
Sutherland, Wesley Burr	Bus	39	• † Sioux City, Iowa
Sutphen, Katherine Van Deusen	SS	7½	• † Urbana
Sutton, Charles Ruel	AE	71½	• † Ottawa
Sutton, Lucile	LAS	105½	• † Minook
Sutton, Mark	ME	9	• † Terre Haute, Indiana
Sutton, Nora	LAS (SS)	101	• † Atwood
Sutton, William Henry	LAS	76	• † Washington, D. C.
Suvoong, Charles Bartlett	LAS		• † Shanghai, China
Swain, Glenn Nathaniel	Bus		• † Cheyenne, Wyoming
Swan, Ruth Alberta	Bus		• † Chicago
Swango, Mervin Enno	SS	6	• † Worthington, Indiana
Swanson, Carl Ernest	AE	136½	• † Aledo
Swanson, Elmer Albert	ME	33½	• † Chicago
Swanson, Erik William	Bus	2½	• † Chicago
Swanson, Ervin Hempton	Agr		• † Paxton
Swanson, Reuben Edgar	LawP	4	• † Prophetstown
Swanson, Ruth Henrietta	Jnl		• † Chicago
Sward, Lawrence Howard	Bus	42	• † Chicago
Swart, Harvey Groenier	Bus		• † Chicago
Swartz, Carl Errett	LAS	2	• † Danville
Swartz, Cecil Augustus	Agr	30½	• † Williamsfield
Swartz, John Theodore	Bus	14½	• † Urbana
Swearingen, Clair Vere	CE	32½	• † Champaign
Swearingen, Lellia Fern	LAS sp	38	• † Champaign
Swedberg, Arthur Valdamer	SS	5	• † Rhinelander, Wisconsin
Sweney, Bertha Ella	LAS		• † Urbana
Sweeny, Ward Dewey	Voc wsp		• † Rockford
Sweet, Paul Cunliffe	Ath		• † Battle Creek, Michigan
Sweigert, Ray Leslie	ME	113½	• † Sterling
Swick, Curvella H.	Law	28	• † Galton
Swicker, Lionel Montgomery	Voc wsp		• † Crossville
Swift, Helen Louise	LAS	32	• † Belvidere
Swinehart, Charles Edwin	LG	70	• † Stuart, Iowa
Swinson, Vance Wallace	SS		• † Parkersburg
Swisher, Madeline Florence	HELAS		• † Danville
Switzer, Lisle Abraham	Bus sp	8	• † Bardolph
Swope, Earl Warner	CE	8	• † Raton, New Mexico
Sykes, Samuel Dwight	ForC	65	• † White Hall
Sykes, Walter Eldred	Bus		• † St. Petersburg, Florida
Tabor, Hubert Baker	Agr	35½	• † Sullivan
Taft, Harold	CE		• † Orangeville

Talbot, Dorothy Newell	LAS			† Urbana
Tall, Winston Burwell	ChE	35½		† Chicago
Tallman, Russell	Agr			† Lanark
Talmage, Daniel H	Bus			† Wabash, Indiana
Tambling, Robert Leicester	ME	8½		† Zion City
Tanenbaum, Albert Lewis	ChE	36		† Chicago
Tanikawa, George Noborn	LAS	15½		† Florio, California
Tankersley, Enid Emilie	LAS			† Chicago
Tanner, Newell Wilson	Agr	66		† Aurora
Tapscott, Charles Cameron	Jnl	106½		† St. Louis, Missouri
Tarbell, Charles Gilman	Bus			† Waterloo, Iowa
Tarrant, Victoria Kimball	HELAS			† LaGrange
Tascher, Wendell Russel	Agr			† Ashkum
Tatsch, Walter Karl	CE (SS)	67		† Chicago
Taubert, Carl August	LG	74½		† Casselton, North Dakota
Taulbee, Horton Mills	SHAAgr	109		† Hillsboro
Taylor, Florence Irene	Bus			† Philo
Taylor, Albert Max	MedP			† Mooresville, Indiana
Taylor, Arthur Paul	Agr	18		† Roseville
Taylor, Berenice Lucile	LAS	32½		† Princeville
Taylor, Bert Sidney	LAS			† Springfield
Taylor, Chalmer Cline	Law (SS)	20½		† Le Roy
Taylor, Daniel Earl	Bus sp			† Shelbyville, Missouri
Taylor, Dolores Ellen	SS	7½		† Arthur
Taylor, Elbert Wallace Arnold	CE	12		† Litchfield
Taylor, Eugene Emerson	MedP (SS)	22		† Le Roy
Taylor, George Evans	LawP	65		† Toledo, Ohio
Taylor, George Y	EE	34½		† Bismarck
Taylor, Harold David	Flor			† Montreal, Canada
Taylor, Harold John	C & L	67½		† Effingham
Taylor, Helen June	HELAS			† Effingham
Taylor, John Bradshaw	LawP	36		† Peoria
Taylor, John Wesley	MinE	44		† Terre Haute, Indiana
Taylor, Julian Amos	Agr	2½		† Springfield
Taylor, Lois Alberta	Mus sp			† Champaign
Taylor, Mary Caroline	SS	7½		† Springfield
Taylor, Owen Russell	Agr			† Le Roy
Taylor, Paul Canaday	Accy	101		† Mooresville, Indiana
Taylor, Robert Cook	Agr	34½		† Earlville
Taylor, Ross Wallace	LAS	117		† Bement
Taylor, William Herman	Bus			† Decatur
Taze, Donovan Long	ME (SS)	33		† East Moline
Teague, Zemuly Guyton	SS	2		† Indiana, Mississippi
Teasdale, John Warren	Arch	131		† St. Louis, Missouri
Tedford, Ruth Mabel	LAS			† Frankfort, Indiana
Teeters, Esther Gladys	HELAS	76½		† Anderson, Indiana
Teeters, Ethalinda Bereniece	LAS (SS)	39½		† Auburn, Indiana
Teeuwen, Marinus Hendricus	SS	9		† Rockford
Teightmeyer, Lauren Evert	CE	32		† Bremen, Indiana
Teightmeyer, George Frederick	CE			† Campbell Hill
Teller, Beatrice Annette	Mus	34½		† Chicago
Teller, Kedzie	MinE	8		† Riverside
Temma, August Ernest	Voc vsp			† Hinckley
Tempel, Clarence Albert	Agr			† Freeport
Temple, Claude Marion	Bus	12		† Mattoon
Templeman, James Dale	MedP			† Springfield
Templeton, Mark Miller	Chem			† Palestine
Tendick, John Samuel	ME	33½		† Canton
Tenhacff, Arthur Emmett, A.B., 1917	Agr irr			† Brush, Colorado
Teninga, Alfred John	Agr	72½		† Chicago
Teninga, John Albert	MedP			† Chicago
Tenison, Sam Alfred	SS	6½		† Hillsboro
Tenney, Walter Irving	Agr	16½		† River Forest
Terpinitz, Jennie Grace	Jnl (SS)	66½		† Champaign
Terwilliger, Ruth Mae	LAS	65		† Decatur
Tessing, Arvid Fred	AE			† Chicago
Teuscher, John Ernst	CE			† St. Louis, Missouri
Thackham, Edwin William	EE	20		† Moline
Tharp, Charles Doren	Bus	2½		† Carmen
Theilen, Sophie	LAS	62½		† Camp Point
Thiem, Ezra George	Agr	70		† Chicago
Theobald, Paul Kellogg	SS	6½		† Illiopolis
Thiel, Charles John	Chem	54		† Chicago
Thiel, Emery George	Accy			† Bryan, Ohio
Thiel, Ernest Aloysius	Agr			† Chicago
Thiele, Francis Benedict	AE	32½		† Chicago
Thiesfeld, Walter	Voc vsp			† Peotone
Tholin, Albert Linne	MinE	8		† Donners Grove
Thoman, William Hall	CE	25½		† Peoria
Thomas, Adele Luetta	LAS	30½		† Ridgville
Thomas, Albert Boyles	Bus sp	8		† Urbana
Thomas, Alfred Clarence	LAS	112½		† Lovilia, Iowa
Thomas, Alice Mae	LAS	60		† Mt. Morris
Thomas, Alpheus Winfield	Bus	8		† Winegar, Wisconsin
Thomas, Clarence Leon	LG			† Sheffield
Thomas, Edward Harry, Jr.	MedP (SS)	82½		† Argenta

Thomas, Edythe J	HELAS		† Green Bay, Wisconsin
Thomas, Frederick Hayward	ME	22	† Moline
Thomas, Glenn Edwin	Agr		† Centralia
Thomas, Harold Dewey	Agr	89½	† Bisbee, Arizona
Thomas, James Gladwyn	ME		† Oklahoma City, Oklahoma
Thomas, John Theron	Law	9½	† Belleville
Thomas, Mary Estelle	LAS		† Argenta
Thomas, Polly Elizabeth, A.B., 1916	SS	132	† Naperville
Thomas, Raymond Stanley	Chem		† Vernon
Thomas, Rossweil Wilder	ME	9½	† Oklahoma City, Oklahoma
Thomas, Roy Elias	LAS		† Ringwood
Thompson, Albert Wilder	LAS	35½	† Harvey
Thompson, Charles Woody	LAS		† Urbana
Thompson, Clinton Samuel	EE	8	† Ullin
Thompson, Davis Wesley	Agr	53½	† Sidney, Ohio
Thompson, Guy Holsinger	LAS	25½	† Fayetteville, Pennsylvania
Thompson, Harland Frank	Bus	8	† Tiskilwa
Thompson, Harold Henry	Bus	32½	† Tiskilwa
Thompson, Helen Marian	LAS (SS)	97½	† White Heath
Thompson, John Philip	CE	36	† Aurora
Thompson, Julia Margaret	LAS	31½	† Champaign
Thompson, Lee Carl	Agr	65½	† Monmouth
Thompson, Leslie Clayton	Agr	29½	† Piper City
Thompson, Lowell Ernest	Bus	62	† Rantoul
Thompson, Margaret Helen	Bus	57	† Hume
Thompson, Morgan	Bus		† Stephens, Arkansas
Thompson, Myra Elizabeth	LAS	65	† Chicago
Thompson, Ralph Langston	Bus		† Sullivan, Indiana
Thompson, Rex Roland	LAS (SS)	96½	† Berwyn
Thompson, Robert Gail	Bus	29½	† Berwyn
Thomson, Kenneth Charles	Agr	21	† Chicago
Thomson, William Paul	EE		† Chickasha, Oklahoma
Thor, Alfred Ulmo	Agr	100	† Rollo
Thorell, Gillman Frederic	Bus		† Stronghurst
Thornhill, George Summers	ChE	30½	† Chicago
Thornsburch, Thelma Theo	LAS	63½	† Urbana
Thornton, Andrew Robertson	Flor		† Elgin
Thornton, Norma Emily	LAS		† Keefe, Iowa
Thorp, William Walter	Accy	108	† Rochelle
Thorpe, Alfonso Valedo	Bus	40	† Clinton
Thorsell, Arthur Alfred	ME	107½	† Rockford
Thory, Hans Christian	LAS	114½	† Chicago
Thrash, Matilda	Mus		† Champaign
Thrasher, Chauncey Albert	ME		† Thawville
Thrasher, Lloyd Laverne	Bank (SS)	28	† Salem
Thrush, Jesse Johnson	EE	2½	† Farmington
Thunberg, Arthur Nels	EE	5½	† Joliet
Thurlow, Mrs. Emma Louise True	HELAS		† Champaign
Thurlow, Henry Plummer	Agr	116½	† Champaign
Thurman, Anne	LAS sp		† Frankfort, Indiana
Thurston, Alfred William	LAS	77	† Champaign
Thurston, Alvin Stewart	MedP	36	† Chicago
Tiffany, Charles William	ME	8	† Antioch
Tiffany, Deedie, B.S., 1919	SS	133½	† Antioch
Tiffany, Mary	SS	81½	† Antioch
Tiffen, Herbert Frederick	Bus	28	† Chicago
Tikotzky, Carl Ralph	ChE	101½	† Chicago
Tikotzky, Julius Max	ChE	23½	† Chicago
Tilds, Marion Hannah	HELAS		† Milford
Tilds, Paul	EE	30	† Milford
Tillotson, Amy Iola	LAS	33	† Champaign
Tillotson, Clara Eva	LAS	53	† Urbana
Tilman, Luther Allen	Bus	2½	† Wabash, Indiana
Tilsy, John William	Agr	8	† Lockport
Tilton, Herbert Fleming	ChE	28	† Chicago
Tilton, Leon Deming, B.S., 1915	LAS irr		† Urbana
Timm, Troy	EE		† Tuscola
Timmons, Georgia Mary Isabella	SS	39½	† Miller City
Tipton, Evilo	SS	8	† Urbana
Tischner, Theodore	Ed (SS)	84	† Milwaukee, Wisconsin
Tives, Thomas Theodore	MedP		† Chicago
Tkach, Mike Edward	Bus (SS)	61½	† Streator
Tobias, Frank	Bus	71	† Normal
Tobin, John Francis	ME		† Gilberts
Todd, Dana Lee	LAS	94	† Oklahoma City, Oklahoma
Todd, Leah Tina	HELAS	98½	† Lerna
Todd, Roscoe Johnson	Bus	35	† Elgin
Todd, Ruth	LAS	60	† Sullivan
Toland, Dwight Lee Clair	Agr		† Vermont
Told, Anna Kathryn	HELAS	100	† Carrollton, Kentucky
Toll, Arno William	IndA	86½	† Chicago Heights
Tolman, Robert Gardner	Bus	77	† Yonkers, New York
Tomm, George Edward	Agr sp		† Delavan
Torrens, John Arthur	Agr		† Barry
Torrico, Mariano Paz	SS	7½	† Cochabamba, Bolivia
Tour, Harry Bird	AE	72½	† Humboldt, Iowa

Tourtlot, Frederick Ignatius	EE	70½	† Oak Park
Towe, Harold Theodore	Law		† Toledo, Ohio
Tower, Carleton Myron	Accy (SS)	118½	† DeWitt, Arkansas
Towle, Margaret Derthick	Lib sp		† Champaign
Towne, Milton Gaines	Agr		† Fayetteville, Arkansas
Townsend, Nellie Ferne	LAS	10	† Sidney
Townsend, Norma Eleanor	LAS		† Elgin
Townsend, Sidney Funk	Agr	82	† River Forest
Toy, Lois Wilma	Bus		† Urbana
Tozier, Roy Becker	SS		† Kampsville
Trabue, James Edward	Bus		† McCune, Kansas
Trabue, Tunnell Benjamin	Bus	2½	† McCune, Kansas
Tracey, Thomas Frederick	SS		† Philadelphia, Pennsylvania
Tracksel, Emil Christian	Ath		† West Allis, Wisconsin
Tracy, Paul Hubert	Agr	113	† Attica, Indiana
Trager, Gladys Valeria	HELAS	32½	† Loda
Trank, Ralph Allen	ForC	18½	† Rockford
Traut, Francis Harry	CE	15½	† Paducah, Kentucky
Trautman, Louis Leander	Bank	39½	† Detroit, Michigan
Trautmann, Henry William	Agr (SS)	2½	† Peoria
Travis, Chester Earl	SS		† Coffeyville, Kansas
Traxler, Elinor Evangeline, A.B., 1918	Bus irr	132½	† Urbana
Traxler, Ivan Ward	Agr	70	† Urbana
Treadwell, Laura Emma	LAS		† Kansas City, Missouri
Treat, Edna Almada, B.Mus., 1910	SS		† Spiritwood, North Dakota
Tredwell, John, Jr.	Bus	58½	† Chicago
Tredwell, Ritchie Neely	Bus	8	† Chicago
Trenchard, Leonard Ambrose	Bus	30	† Hardin, Missouri
Trenkle, Howard Raymond	Bus	41½	† Farmer City
Trevett, Richard Mansfield	Bus	12	† Champaign
Trigg, Grace Marian	LAS	67½	† Atlanta
Triggs, Lawrence Fuller	Accy	4	† Huntingdon, Indiana
Trimble, Russell Chauncey	Bus	8	† Sidell
Tripp, Donald Ardean	Ins	34	† Springfield
Tripp, Evelyn Atwood, A.B., 1912	LAS irr		† Evanston
Trost, Opal Winifrede, B.S., 1916	SS	132	† Urbana
Trotter, Robert Bruce	Agr		† Cool City
Troup, Robert Cameron	CE (SS)	49½	† Buffalo, New York
Trout, Willard Kellogg	CE	28	† Aurora
Trovillion, Hal V	Agr sp		† Brownfield
Trowbridge, Emma Cornelia	LAS	96½	† Green Valley
Trowbridge, Helen	LAS	64	† Green Valley
Trowbridge, Margaret Elizabeth	LAS		† Green Valley
Truckenbrod, Norval Albert	Agr		† West Brooklyn
Truckenbrod, Roland William	Agr		† LaMoille
True, Bernadine Idelle	LAS		† Aurora
True, Leighton Jay, B.S., 1910	SS	10	† Porterville, California
Truman, Edna, B.S., 1907	SS		† Urbana
Trumbo, Elias Haerberlin	Agr	33	† Ottawa
Tsang, Chuk Yee	Chem (SS)	73	† Hongkong, China
Tsang, Wai Kwong	ME (SS)	104½	† Hongkong, China
Trissal, Frances Marian	HELAS		† Chicago
Tsao, Mao-te, A.B., 1919	SS	130½	† Washington, D. C.
Tsao, Jiu Chih	CE		† Shansi, China
Tsau, Chin Ming	RCE		† Canton, China
Tschentke, Herman Louis	SS	120	† Crescent City
Tuan, Wei	SS	53½	† Mengzhu, China
Tucker, Elisha Benjamin	SS		† Mason
Tucker, Gerald Thompson	Bus	34	† Decatur
Tucker, Gladys Elizabeth	HELAS	95½	† Hume
Tucker, Hazel May	LAS	21½	† Champaign
Tucker, John Gordon	EE		† Centralia
Tucker, Marion	LAS	63½	† Champaign
Tucker, Milton Francis	CE	106½	† Chicago
Tucker, Will Hunsinger	LAS	19	† Mt. Vernon
Tuesburg, Arthur Cox	MedP	36	† Knox, Indiana
Tukey, Edwin Cubberley	Bus	8	† Marion, Indiana
Tukey, Gertrude Dodge	LAS		† Berwyn
Tukey, Mrs. Maryaret Davenport	HELAS	79½	† Champaign
Tull, Mrs. Lola Mary	SS	1	† Champaign
Tull, Thelma Virginia	LAS	28	† Farmer City
Tull, Thomas Warren	AE		† Monticello
Tully, Thomas Henry	LAS	44	† Elmwood
Tulpine, Mary Luth	SS	5½	† Franklin
Tung, Shu Don	ME (SS)	50½	† Champaign
Tunnell, Harold B	LawP		† Hornsby
Turnbull, John Mitchell	Agr		† Monmouth
Turnbull, Mary Irene	LAS	65	† Neponset
Turnbull, Ralph William	ForC		† Carlinville
Turner, Fred Harold	MedP	36½	† Tuscola
Turner, Jean Baxter	LAS		† Loda
Turner, Jewett Mattox	LG	61½	† Chicago
Turner, John Paul	AE	61½	† Tuscola
Turner, Jonathan Baldwin	Agr		† Butler
Turner, Kenneth Robert	EE		† Bloomington
Turner, Leonard Christian	Bus	28½	† Whiting, Indiana



Turner, Merle Bernice	LAS	80	* † Champaign
Turner, Nellie Margaret	HELAS	58½	* † Urbana
Turner, Sheldon Knight	Bus	60	* † Evansion
Tarnquist, Ruby Marie	HEAgr	95½	* † Chicago
Turpin, Elizabeth Mae	HELAS		* † Decatur
Turton, Lester Miller	Bus		* † Chicago
Tushek, Rudolph Robert	CE (SS)	80½	* † Joliet
Tuttle, John Donald	Arch	10½	* † Chicago
Tuttle, Le Roy Hammond	Bus	33	* † Oak Park
Tuttle, Lowell Hafner	LAS	119	* † Chicago
Tutwiler, Robert Evans	Bus	68½	* † River Forest
Tvrdy, Frank	LG sp		* † Ledlice, Bohemia
Twardock, James Arthur	Agr	12	* † Rockford
Twells, Robert	CerE	112½	* † Chattanooga, Tennessee
Twigg, Josephine Sybil	LAS (SS)	72½	* † Brocton
Twitchell, Standlee Irving	LAS	28½	* † Belleville
Twomey, Thomas Leo	SS		* † Champaign
Tyler, Floyd Ford	LAS (SS)	101½	* † Greenwood, Arkansas
Tyson, Germaine Keepers	EE		* † Chicago
Uchaez, Stanley Clemens	Agr		* † Chicago
Udelowish, Stella Mignon	HELAS		* † Chicago
Ueberrhein, George Francis	Agr	67	* † Peoria
Ulbright, Jean Percy	Bus	32	* † Benton Harbor, Michigan
Ulrey, Orion	Agr		* † Martinville
Ulrich, George Edward	EE		* † Pinckneyville
Umbach, Erwin	SS	8½	* † St. Louis, Missouri
Umfleet, Mary Elizabeth	Mus sp	6	* † Grayville
Umphlet, Chris	MedP		* † Chicago
Underiner, Alfred Bernard	EE	10	* † Effingham
Unger, Robert Marion	RA		* † Chicago
Uplap, Govind Piraji	ME sp		* † Almar, India
Upton, Samuel Ringland	SS		* † Muskegon, Michigan
Usrey, Virgil Ray	Agr	8	* † Marion
Uthoff, Carl Joseph	MedP		* † Chicago
Utley, George Hamlet	EE		* † East St. Louis
Utley, Ross James	Bus	74½	* † Chicago
Utley, Theodore Henry	Agr	66	* † Sterling
Utt, Ralph Chester	Agr	34	* † Decatur
Vail, Charles Winfield, Jr.	Law		* † Springfield
Vale, Simeon	LAS		* † Corella, Bohol, P. I.
Valentine, Edwin Earnest	AE	63	* † Green Bay, Wisconsin
Valentine, Florence	LAS	30	* † Mt. Vernon
Vallier, Justin Du Bois	EE	33½	* † Taylorville
Vallier, Ruth Eleanor	Bus (SS)	85	* † Champaign
Van Bramer, Douglas Francis	Agr	67	* † Chicago
Vance, Clarence Emory	Ed	60	* † Champaign
Vance, Donald Howe	EE	29½	* † Oblong
Vance, George Howard	Agr	8	* † Chicago
Vance, Paul Andrew	EE		* † Hector, Minnesota
Vandaveer, Frederick Euart	Chem	62½	* † White Hall
Van Den Bussche, Maria Margarita	LAS		* † Rock Island
Vanderheyden, Fern Lucille	LAS	34½	* † Stockton
Vandervort, Maurice Linwood	AE	27	* † Kankakee
Vandervort, Onieta Moma	LG	31½	* † Normal
Vandeventer, Fenton Ross	Agr	72	* † Mt. Sterling
Van Deventer, Ruth Marlowe	Flor	53½	* † Springfield
Vandivier, Harry Glenn	LAS	106	* † Franklin, Indiana
Van Doren, Harry Morris	Jnl	45	* † Litchfield
Van Doren, Paul Miletus	Bank	39	* † Urbana
Van Doren, Walter Earl	Bank		* † Champaign
Van Dorn, Theodore Joseph	Law	28	* † Springfield
Van Dyke, Fred Henry	Agr	6	* † Ashley
Van Dyke, Peter Alexander	EE	28½	* † Chicago
Van Graan, Hoop Steyn	RA		* † Branafort, South Africa
Van Inwegen, Helen	Agr	102½	* † Chicago
Van Kirk, William Tunis	Ath	28	* † Chicago
Van Meter, Mrs. Catherine Caborn	LAS sp (SS)	7½	* † Champaign
Vannier, Paul Harvey	Agr	6	* † Bluffs
Van Pelt, Charlotte	LAS		* † Chicago
Van Pelt, Willis	Agr (SS)	49½	* † Chicago
Van Sickle, Sam Gilbert	Agr	12½	* † Kokomo, Indiana
Vanvactor, Mrs. Ella Kinard	SS		* † Cairo
Van Wicklin, Paul Aldridge	Bus	27	* † Elgin
Varnum, Laurent Kimball	Agr sp	95	* † Muskegon, Michigan
Vaughan, Fred Nathan, Jr.	Agr		* † Amboy
Vaughan, Harold Esmond	ME	24	* † Joliet
Vaughan, Rufus Emerson	Agr	91½	* † St. Louis, Missouri
Vaughan, Troy Archie	LawP	4½	* † Carman
Vaughn, Howard Flagler	AE (SS)	96½	* † Vesper, Wisconsin
Vaughn, John Irving	Chem	44½	* † Vesper, Wisconsin
Vaughn, Louis Edward	ME		* † Wood River
Vaughn, William Edward	Chem		* † Fowler, Indiana
Vaught, Minnie Belle	SS		* † Decatur
Vaupel, Carl Herman	ME		* † Pekin
Vawter, Monroe Fowler	Accy	32½	* † Hillsboro
Veirs, Dean Moorman	SS	65	* † Urbana

Vera, Genaro	SS	8	Cochambamba, Bolivia
Verea, Juan	Agr (SS)	40	* † Guadalajara, Mexico
Verry, Ronald William	Agr sp		* † Modesto
Vial, Edmund Ellsworth	Agr	40½	* † LaGrange
Viall, Rhoda Emily	HELAS	26	* † Manteno
Victor, Sturges La Verne	Agr	11½	* † Onarga
Vilmur, Alvin Norbert	AE	24	* † Assumption
Violette, Robert Bluford	LAS		* † Beardstown
Visino, May Amelia	LAS	46½	* † Murphysboro
Vissering, Carl William	Agr		* † Long Point
Vieland, Herbert Ford	Agr sp		* † River Falls, Wisconsin
Voelpel, William Frederick	ME	9½	* † Morton
Vogeding, Dwight Karl	Bus		* † Chicago
Vogel, Ralph Emerson	ME		* † Princeville
Vogel, Leon Otis	Bus (SS)	61½	* † Urbana
Vogleson, Margery Anne	LAS		* † Chicago
Vogt, Frank Walter	CE	104	* † Chicago
Vohs, Linz Vincent	FOM	56½	* † LaSalle
Volland, Frederick Adolf	EE		* † St. Louis, Missouri
Volland, William McKinley	ME	36	* † St. Louis, Missouri
Vollbracht, Florence Anna	LAS (SS)	73	* † Camp Point
Vollmer, Wilhelmina Elizabeth	LAS	73	* † Urbana
Von Ohlen, Floyd William George	Agr	110½	* † Hincley
Voorhees, Evangeline Mae	CCS	93½	* † Chicago
Voss, Esther Katherine	LAS	21	* † Wilmette
Voss, Karl Frederick	MedP		* † DuQuoin
Votaw, Hazel Dolores	LAS		* † Urbana
Voyles, Lloyd Jennings	LawP	8	* † Bone Gap
Vognow, Edward Everett	ForC		* † Chicago
Vranek, Miles Emanuel	Bus	10	* † Maywood
Vreeland, Helen Olive	LAS		* † Elwood
Vreeland, Henry Kipp	LAS (SS)	53½	* † Elwood
Wacaser, Lloyd Russell	Bus		* † Lovington
Waddington, Glenn George	ME	128	* † Champaign
Wade, Sidney	LAS	60	* † Buffalo, New York
Wadsworth, Elwin Swan	Agr		* † Dixon
Wagenknecht, Theodore William	Bus		* † Oak Park
Wagenknecht, Algernon Roberts, Jr	Agr	20½	* † LaGrange
Wager, Maurice Pollard	ME	108½	* † Chicago
Waggoner, Elizabeth Jane	LAS		* † Madison
Waggoner, Marion Eugenia	SS	15	* † Lebanon
Waggoner, Morris Edward	Agr	97½	* † Lebanon
Wagner, Carlos John	SS	7½	* † Burlington, Wisconsin
Wagner, Clifford Monroe	CE		* † Bonfield
Wagner, Earl William	Bus		* † Urbana
Wagner, Edward Michael	Bus	30½	* † LaSalle
Wagner, Everett Emmerson	Bus	40½	* † Melamora
Wagner, Ferne Romola	LAS		* † Melamora
Wagner, Richard Edwin	CE ssp	8	* † Kankakee
Wahl, Clyde Raymond	Bus	32	* † Sterling
Wahl, George John, Jr.	IndA	63½	* † Chicago
Wahlbrink, Armin August	Bus		* † St. Charles, Missouri
Waite, Ethel	HELAS	30	* † Tonica
Walberg, Leonard Carl	ME	32	* † Harvey
Walbert, George Henry	Accy	8	* † Chicago
Waldie, Benjamin Dickison	Agr	29	* † Chicago
Waldo, John Hardenbergh	Chem	120½	* † Urbana
Walker, Charles Edgar	Law sp		* † Albion
Walker, Glenn Bruce	Bus	2½	* † Aurora
Walker, Harold William	Bus	34	* † LaGrange
Walker, Joseph Christy	Bus	35½	* † Moline
Walker, Laura	HELAS	60½	* † Clinton
Walker, Lee Earl	Agr	15½	* † Anna
Walker, Lucile Valinda	HELAS		* † Urbana
Walker, Paul	Agr	57½	* † Palestine
Walker, Pearl White	LAS (SS)	100	* † Golconda
Walker, Sarah Francis	HELAS	61	* † Clinton
Walker, Volney Denchar	ME	96½	* † Lakewood, Ohio
Walker, Ward Smith	Agr	20	* † Gays
Walker, William Albert	SS	6	* † Windsor
Walker, William Franklin	Bus	8	* † Anderson, Indiana
Walkup, Eunice Earle	SS	6	* † Normal
Walkup, Ione Dorothea	LAS	64½	* † Champaign
Wall, Margaret Beatrice	LAS sp		* † Bloomington
Wallace, Claradehl	HELAS (SS)	36½	* † Urbana
Wallace, Elwin Thomas	Agr	71	* † Assumption
Wallace, Frank Maltby	Jnl	30½	* † Chicago
Wallace, George Ira	Agr		* † Beardstown
Wallace, Henry Smith	CE	2½	* † Chicago
Wallace, Morris T	LAS	8	* † Oak Park
Wallace, Raymond Randall	SS	5	* † Enfield
Wallace, Ruth	LAS	80½	* † Homer
Wallace, Samuel Haywood	LG	54	* † Oak Park
Wallace, Wendell Wayne	CE	4	* † Mooseheart
Wallach, Lillian	LAS	31½	* † Chicago
Wallage, Stanley Tiffin	MinE	149½	* † Paris

Wallbaum, William Lee	<i>Agr</i>		* † Ashland
Waller, Corem	<i>Bank</i>		* † Herrin
Waller, Willard Walter	<i>LAS (SS)</i>	114½	* † Menard
Wallin, Marino Raymond	<i>EE</i>	2½	* † Concord, Nebraska
Wallingford, Charles Longley	<i>Bus</i>		* † Chicago
Wallis, Mrs. Grace Hite	<i>SS</i>	89½	* † East St. Louis
Walquist, Lawrence Wilfred	<i>Bus</i>	32	* † Rockford
Walsh, Earl Joseph	<i>AE</i>	73	* † Huron, South Dakota
Walsh, Ellen Loretto	<i>HEAgr</i>		* † West McHenry
Walsh, Nelson John	<i>MedP</i>	13½	* † Morris
Walsh, Robert Francis	<i>Agr sp</i>		* † Chicago
Walsh, Robert Pollard	<i>Arch</i>	24	* † St. Louis, Missouri
Walther, Dennis Junior Logsdon	<i>CE</i>	40½	* † Urbana
Walther, Harriet Doney	<i>Bus</i>	41½	* † Kansas City, Missouri
Wamsley, Edna May	<i>LAS</i>		* † Tuscola
Wand, Fairy Belle	<i>Mus sp</i>		* † Champaign
Wand, Fred Andrew	<i>Agr</i>	28½	* † Onarga
Wand, William Wilson	<i>Law sp</i>		* † Onarga
Wang, Huai Ming	<i>LAS sp</i>		* † Shansi, China
Wanzer, Elsie Louise	<i>Jnl</i>		* † Chicago
Wanzer, Sidney	<i>Agr</i>	20½	* † Chicago
Ward, Charlotte Baldwin	<i>LAS</i>	100½	* † Urbana
Ward, Dan Putnam	<i>Agr</i>	50	* † Marshalltown, Iowa
Ward, Hiley Lemen	<i>Accy</i>	61½	* † DuQuoin
Ward, Justus Conrad	<i>Chem</i>	106	* † Clinton
Ward, Leslie Orlando	<i>Bus</i>	8	* † Champaign
Ward, Lewis Ott	<i>ChE</i>	33½	* † Indianapolis, Indiana
Ward, Mary Cecelia	<i>SS</i>		* † Owaneco
Warfel, Lella May	<i>Chem</i>	34	* † New Philadelphia
Warford, David Arthur	<i>Chem</i>	58½	* † Elizabethtown
Wargin, Lewis Joseph	<i>ME</i>	28½	* † LaSalle
Warmolts, Earl Hugh	<i>MedP</i>	54½	* † Oregon
Warnock, Irl Bean	<i>MedP</i>	53½	* † Mason City
Warnock, Mary Lucile, A.B., 1913	<i>Lib</i>	33	* † Milan
Warren, Donald McGill	<i>Bus (SS)</i>	32	* † Watseka
Warren, Harry Theodore	<i>Chem (SS)</i>	76	* † Centralia
Warren, Hill	<i>LAS sp</i>		* † Blufford
Warren, Milton Willard	<i>Agr</i>	74	* † Mansfield
Warren, Nellie Pearl	<i>LAS</i>	111	* † Mansfield
Warren, Ruth	<i>LAS</i>	36	* † St. Louis, Missouri
Warren, Winfred Field	<i>Bus</i>	29½	* † Pawpaw
Wascher, Herbert Frederick	<i>SHAAgr</i>	74	* † Champaign
Wascher, Herman	<i>Agr</i>	28½	* † Champaign
Washburn, Ava Lee	<i>HEAgr</i>	82	* † Caneyville, Kentucky
Washburn, John Beard	<i>Bus</i>	8	* † Crawfordville, Indiana
Washburn, Raymond Allen	<i>Jnl</i>	72	* † Kewanee
Washburn, Willard Orville	<i>SS</i>	48¾	* † Rock Island
Washington, Camille	<i>LAS</i>	32	* † Lovejoy
Waterbury, Harry Bremner	<i>Agr</i>	88½	* † Chicago
Waterfall, John Wesley	<i>IndA</i>	32½	* † Fort Wayne, Indiana
Waterfall, Wallace	<i>ChE</i>	36½	* † Fort Wayne, Indiana
Waterman, William Layton	<i>Agr</i>	66	* † Chicago
Waters, George Gerald	<i>ME</i>	87½	* † Chicago
Watkins, Lida Grace	<i>HELAS</i>		* † Fithian
Watkins, Mitchell Sylvester	<i>Bus</i>	8	* † Cairo
Watson, Athelene	<i>LAS</i>	10	* † Colfax
Watson, Evelyn	<i>LAS</i>		* † Clinton
Watson, Frances Lee	<i>LAS</i>		* † Celina, Ohio
Watson, George Ferris	<i>LAS (SS)</i>	38	* † Danville
Watson, Grace Gamron	<i>LAS</i>	74	* † Arthur
Watson, Malcolm Hamilton	<i>Agr</i>	101	* † Urbana
Watson, Raymond Vance	<i>Agr (SS)</i>	97½	* † Clinton
Watt, Charles Stewart	<i>Agr</i>		* † Western Springs
Watt, Grace Eleanor	<i>LAS</i>		* † Champaign
Watt, Lois Mary	<i>LAS</i>		* † Chicago
Watt, Margaret Louise	<i>LAS</i>	100½	* † Winchester
Wattleworth, Charles	<i>CE</i>	32	* † Chicago
Watts, Amos Holston	<i>Law</i>	19½	* † Nashville
Watts, Boyd	<i>Arch</i>		* † Decatur
Watts, Grace Minnie	<i>Bus</i>	86½	* † Saunemin
Watts, Leonora Howard, A.B., 1919	<i>SS</i>	131	* † Lebanon
Watts, Vera Howard	<i>SS</i>	6½	* † Danville
Watts, William Wadsworth	<i>LawP</i>	70½	* † Nashville
Waugh, George Wilfred	<i>Bus</i>		* † St. Louis, Missouri
Wear, Carl Eugene	<i>Bus</i>		* † Colchester
Wear, Ernest George	<i>EE</i>	64½	* † Macomb
Wearly, Harriet Ellen	<i>HELAS</i>	18½	* † Huntington, Indiana
Weart, James Garrison	<i>Agr</i>	55	* † Winnetka
Weasel, Nellie Wilma	<i>LAS</i>	16	* † Pesolum
Weaver, Dorothy Eunice	<i>LAS (SS)</i>	28	* † Champaign
Weaver, Loren De Witt	<i>Bus</i>		* † Sterling
Weaver, Vesta Belle	<i>HELAS (SS)</i>	57½	* † Henry
Webb, Brent Girdler	<i>Arch</i>	118	* † Louisville, Kentucky
Webb, George Stanley	<i>REE (SS)</i>	105½	* † Bloomington
Webb, Judson Willard	<i>Chem</i>	25½	* † Maywood
Webb, Willis Crawford	<i>Agr</i>	66	* † Chicago

Webber, Clyde Augustin	Bus	15½	* Urbana
Webber, Flavius Sanford	Agr	21½	* Paxton
Webber, Ruth Marjorie	LAS	30½	* Urbana
Weber, Clarence Jacob	LAS		* Evansville, Indiana
Weber, Elizabeth	LAS		* Edwardsville
Weber, Fredrik Gottlieb	Agr	74½	* Tower Hill
Weber, Raymond James	EE		* Chicago
Webster, Dee Enlow	MedP	22	* Cairo
Webster, Eloise	LAS	18½	* Detroit, Michigan
Webster, Harlan Thomas	EE		* Chebanse
Webster, Hayes Hilbert	Bus	32	* Washington, Indiana
Wedge, Wilbur Dewey	LAS	96	* Kewanee
Weede, Garfield Wilson	SS	7½	* Sterling, Kansas
Weedman, Frances	HEAgr		* Farmer City
Weedon, Amy Gertrude	Agr		* Wilmette
Weege, Frank Charles	Agr		* Chicago
Weeks, Gayle Leone	HELAS		* Elmwood
Wegforth, John Frederick, Jr.	Agr	1	* Wilmette
Wehrman, Gertrude Emily	LAS		* Maywood
Weick, Fred Ernest	ME	39	* Berwyn
Weidemeyer, William Morrow	AE	8	* Little Rock, Arkansas
Weidner, Garland Lehr	ME		* Louisville, Kentucky
Weilepp, Paul Francis	LAS	8½	* Decatur
Weinberg, Sol Paul	EE		* Rushville
Weiner, Aaron Burton	ME	106½	* Chicago
Weiner, Hyman Irvin	CerE		* Chicago
Weingarten, Lawrence Bernard	Bus (SS)	24½	* Champaign
Weinrott, Goldie Bertha	LAS	53	* Moline
Weir, Daniel John	LAS sp		* Galesburg
Weir, Esther	HEAgr		* Marshall
Weir, Mary Jane	HEAgr (SS)	102	* Marshall
Weisheit, Charles	C & L	27	* Jersey City, New Jersey
Weiss, John Nelson	Agr	66	* Geneseo
Weiss, Theodore Frank	ChE	35	* Pukwana, South Dakota
Weissman, Joseph	Bus	33	* Chicago
Weissman, Maurice	LawP	36½	* Chicago
Weitknecht, Helen Bernice	LAS	68	* Mitchell, Indiana
Welch, Charles William	AE		* Mattoon
Welch, Charlotte Bruce	LAS	96½	* Waukegan
Welch, Everett Veigh	Arch	19½	* Parsons, Kansas
Welch, Helen Frances	LAS		* Waukegan
Welch, James	Voc rsp		* Marengo
Welch, Jean Lillian	HELAS		* Rock Island
Welch, Joseph Edward	EE		* Evansville, Indiana
Welch, Mary Mildred	LAS	65	* Waukegan
Welden, Margaret	LAS		* Centralia
Weldon, Clarence William	Agr	12	* Rockford
Weller, Herbert Clay	LAS (SS)	95½	* Tuscola
Weller, Paul Harold	Arch	9	* Chicago
Wells, Delbert Leslie	Bus	2½	* Monmouth
Wells, Edwin Silas, Jr	ME		* River Forest
Wells, Estell Marion, A.B., 1919	SS	131½	* Girard
Wells, Eunice, A.B., 1913	Lib		* Kalamazoo, Michigan
Wells, Roger Lewis	Chem	57½	* Lawrenceburg, Indiana
Welsh, Clarence Laehr	ChE	14	* St. Louis, Missouri
Welsh, Glen Eugene	EE		* Flat Rock
Welsh, John Robert	CE	32	* Champaign
Welsh, Olin Lloyd	Agr	19½	* Sciota
Welsh, William James	IndA	8	* Clinton, Iowa
Welton, Everett Leo	MedP		* Plainville
Welton, Ralph Eugene	EE	25	* Urbana
Welty, Adelaide	LAS		* Amboy
Wemhaner, Blanche Elizabeth	HEAgr		* Warsaw
Wen, Ming Wei	SS		* Canton, China
Wendel, Earl Jennings	CE	29½	* Chicago
Wendorf, Henry Earl	IndA		* Barry
Wendover, Mabel Benedict	LAS		* St. Louis, Missouri
Wenke, Vernon Arthur, B.S., 1919	SS	131½	* Geneseo
Wenner, Leland Andrew	AE	8	* Raymond
Wente, Edward H	ME	8	* Johnston City
Wenthe, Albert William	AE		* Evingham
Werner, Fred	EE		* Murphysboro
Werner, Harry William	ME (SS)	71½	* Los Angeles, California
Werre, Lingard Eugene	Bus	29½	* Kahoka, Missouri
Wert, Catherine Selma Leotta	SS	58	* Kenallville, Indiana
Werts, Bruce Wallace	Agr	9	* Abingdon
Wessels, Anna Marie	HELAS		* Meekin
Wessman, Harold Everett Walfred	CE	12	* Rockford
Wessman, Walter Joel	Accy	34½	* Rockford
Wesson, Katharine	LAS	43½	* LaCrosse, Wisconsin
West, Lloyd Alvin	EE	107½	* Yates City
West, Mary	SS	54	* Champaign
West, Stewart Benedict	Agr	27½	* Geneseo
Westbrook, Harold William	Bus	90	* St. Louis, Missouri
Westcott, Ellsworth Johnson	CE	75	* Maywood

Westcott, Philip Spring	REE	84	* † Oak Park
Westerfeld, Ralph Edgar	Bus		* † Chicago
Westerman, Lena Mary	SS	21	* † Mound City
Westermann, Richard Wilbert	ChE (SS)	108 <sup>5</sup> / <sub>6</sub>	* † Quincy
Westervelt, Neville	LAS		* † St. Louis, Missouri
Westervelt, Wade Clavis	LAS		* † Buda
Westfall, James Harvey	LAS (SS)	77 <sup>1</sup> / <sub>2</sub>	* † Grayville
Westfield, Norman Elmer	Agr	95 <sup>1</sup> / <sub>2</sub>	* † Chicago
Westlund, Arthur Peter	IndA	40	* † Chicago
Weston, John William	Law		* † Peoria
Wetherbee, Lawrence Edward	Bus		* † Chicago
Wetherell, Edwin Henry	Arch	87	* † Des Moines, Iowa
Wettergren, Wesley Kern	LawP	38	* † Rockford
Wetterlund, Raymond John	CE		* † Chicago
Wetzel, Herbert Murry	LAS sp		* † Calhoun
Wetzel, Randall Christopher	CE		* † Chicago
Weyer, Esther Latimer	LAS	32	* † Keokuk, Iowa
Weygant, Robert Miller	CE	12	* † Waukegan
Wharmby, Ada	LAS	39	* † Urbana
Wharton, Russell Finley	EE	36	* † Moline
Wheaton, Alene Lee	Mus sp		* † Champaign
Wheaton, Vernon Earl	ME	85 <sup>1</sup> / <sub>2</sub>	* † Peoria
Wheeler, George Richmond	Bus	8	* † Bushnell
Wheeler, Helen Marguerite	HELAS	63	* † Champaign
Wheeler, John Russell, Jr.	LAS (SS)	20 <sup>1</sup> / <sub>2</sub>	* † Tulsa, Oklahoma
Wheelhouse, Hermann Allen	AE	35 <sup>1</sup> / <sub>2</sub>	* † Decatur
Wheelock, Earle Nathaniel	Agr	103	* † Wilmette
Wheelwright, Edward Arthur	Accey	8	* † Harvard
Whelan, Orland	EE	22	* † Springfield
Whipple, Leonard Austin	CE	34 <sup>1</sup> / <sub>2</sub>	* † Chicago
Whitaker, Claude Brown	Accey	30 <sup>1</sup> / <sub>2</sub>	* † Joliet
Whitaker, Frances Emily	LAS		* † Robinson
Whitaker, Louise	LAS	23 <sup>1</sup> / <sub>2</sub>	* † Urbana
Whitchurch, Louise Augusta	HELAS	60 <sup>1</sup> / <sub>2</sub>	* † Salem
Whitcomb, Raymond Montross	Bus		* † Chicago
Whitcombe, Albert Bertrand, Jr	Bus	6 <sup>1</sup> / <sub>2</sub>	* † Dixon
White, Charles Lee Roy	LawP		* † Danville
White, Earl Leonard	Bank	94 <sup>1</sup> / <sub>2</sub>	* † Belvidere
White, George Russell	Agr	24	* † Georgetown
White, Harold Elmer	ME	34	* † Veshsburg, Michigan
White, Herbert Bigham	Agr	37 <sup>1</sup> / <sub>2</sub>	* † Peoria
White, Herbert Le Roy	LAS		* † Little Rock, Arkansas
White, Homer	MedP	45	* † Pawnee
White, James Haulden	Agr		* † Gibson City
White, Jeanne Winslow	Bus	30	* † St. Joseph, Missouri
White, Joseph Harvey	Agr	8	* † Mt. Carmel
White, Leonard Newton	CE	66 <sup>1</sup> / <sub>2</sub>	* † Little Rock, Arkansas
White, Mildred Elizabeth	LAS		* † Columbus, Georgia
White, Walter Howard	EE	30 <sup>1</sup> / <sub>2</sub>	* † Joliet
White, William Lloyd	Jnl	41	* † Fowler, Indiana
Whited, Trunian Trail	EE		* † Buda
Whitfield, Glenn Adrean	LAS		* † Sullivan
Whitfield, Zachie Baker, Jr.	Arch		* † Sullivan
Whitford, Grace	LAS	64 <sup>1</sup> / <sub>2</sub>	* † Clayton
Whitford, Mabel	LAS		* † Clayton
Whiting, Charles Edward	CE	2	* † Peoria
Whiting, Raymond Titus	ME		* † Oak Park
Whitlock, Ethel Elvira	SS	8	* † Franklin
Whitman, George Bruington	Agr	103 <sup>1</sup> / <sub>2</sub>	* † Cameron
Whitman, Herman Grover	ME		* † Belvidere
Whitnah, Nellie Roberta	LAS	60	* † Cuba
Whitney, Harold Bruce	CE	103	* † Silver Spring, Maryland
Whitney, Howard Hume	Agr	26	* † Roodhouse
Whitson, Herman Ansel	MedP	94	* † Rushville
Whittemore, Katherine	Bus	13	* † East Aurora, New York
Whitten, George Arion	Arch	101 <sup>1</sup> / <sub>2</sub>	* † Urbana
Whittier, Heman James, Jr.	Bus	33	* † Kansas City, Missouri
Whittier, Marshall Waldo	ME (SS)	59 <sup>1</sup> / <sub>2</sub>	* † Kansas City, Missouri
Whittington, Ralph Samuel	EE	34 <sup>1</sup> / <sub>2</sub>	* † Benton
Whittington, Ray Norton	Bus	65	* † Benton
Whittle, John Gillette	Agr	3	* † Decatur
Wicker, Walter Charles	Agr sp	8	* † Urbana
Wickersham, Madelaine Lloyd	LAS		* † Chicago
Wickhorst, William Krieg	CE (SS)	25 <sup>1</sup> / <sub>2</sub>	* † Aurora
Wiedemann, Madge	LAS		* † Harvey
Wiedemann, Newell Everett	Arch	113 <sup>1</sup> / <sub>2</sub>	* † Rector, Arkansas
Wiemers, William Bernard	Bus	4	* † Douglas, Arizona
Wier, John Sperry	Agr		* † Lacon
Wiersema, Dorothy Mae	Ed	92 <sup>1</sup> / <sub>2</sub>	* † Berwyn
Wiersema, Henry	EE	68	* † Fulton
Wiese, Trazia Lucile	Mus		* † Longview
Wightman, Joseph Sidney	Bus	8	* † St. Louis, Missouri
Wilcox, Harold Childs	Bus (SS)	27	* † Slerling
Wilcox, Henry Mills	Bus	16	* † Chicago
Wilcox, Lucille Elizabeth	LAS		* † Champaign
Wilcox, Marshall Le Roy	EE		* † Chicago

Wilcoxon, Dorothy Jeanette	Mus		† Oak Park
Wild, Alfred Ames, Jr.	FE	23	* † Kansas City, Missouri
Wilde, John Frank	AE	43½	* † Oak Park
Wildeman, Harry Heynis	Bus	30	* † Chicago
Wilder, Charles Lucas	LAS	96½	* † Peoria
Wildermuth, Joe Henry	Arch	119½	* † Gary, Indiana
Wildman, Herbert Arthur	MedP	8	* † Ranger, Texas
Wiles, Albert Donald	ForC	69½	* † Indianapolis, Indiana
Wiles, Dorothy Lindley	LAS		* † Chicago
Wiles, Harold Archie	Agr		* † Champaign
Wiley, Besse Lois	LAS	112	* † Edgerton, Ohio
Wiley, Elvin James	MedP	24½	* † Hanover
Wiley, Frank Clarence	Bus		* † Earlville
Wiley, Russell Warren	AE	76	* † Chicago
Wilhelm, Arthur Charles Fred	Agr		* † Chicago
Wilhelm, Harry Hiram	Ath		* † Dayton, Ohio
Wilhoit, Arthur	Agr	102½	* † Kansas
Wilk, Harry Arthur	LAS (SS)	76	* † Kinnmundy
Wilkinson, Robert Sommerville	Bus		* † Birmingham, Alabama
Wilkey, Lucille Vivien, A.B., 1919	SS	129½	* † Urbana
Wilkey, Roscoe Stanley	Law		* † Urbana
Wilkins, Margaret Rosalind	HELAS		* † Springfield
Wilkinson, Bert Keith	Bus	8	* † Elburn
Wilkinson, Cecil Herbert	FOM	96½	* † Urbana
Wilkinson, Edwin Arthur	MedP		* † Chicago
Wilkinson, Marjorie	LAS		* † Bethany
Wilkinson, Porter Augustus	Bus	50½	* † Bethany
Wilkinson, Scott Jackson	LAS	97½	* † Bethany
Wilkinson, Wardell	Bus	101	* † Chicago
Will, Harry Edward	LawP		* † Murphysboro
Will, Howard Austin	LawP	66	* † Ara
Willard, Ruth Frances	LAS	73½	* † Decatur
Willcox, Harry J. A.B., 1914, A.M., 1915	Mus irr		* † Ithaca, New York
Willeford, Milton Everett	Agr		* † Greenville
Willeford, Ruth Mary Jane	HELAS	32½	* † Greenville
Willett, Donald Biggar	LAS	79½	* † Oak Park
Wiley, Gilbert Stewart	Agr	93½	* † Warren, Minnesota
Willi, Donald Christian	Chem	38	* † DuQuoin
Williams, Anna Beatrice	LAS	33½	* † Springfield
Williams, Anna Waller, A.B., 1907, A.M., 1912	SS		* † Urbana
Williams, Bertha	SS	6	* † St. Louis, Missouri
Williams, Carroll Mortimer	EE		* † Longmont, Colorado
Williams, Emily	HELAS		* † Champaign
Williams, Florence Jane	HELAS		* † Champaign
Williams, Harold Gordon	Agr		* † Rockford
Williams, Helen Gertrude	LAS	64	* † Westfield
Williams, Helen Marguerite	LE		* † Mattoon
Williams, Henry Morris	ME		* † East Chicago, Indiana
Williams, Henry Walter	EE	28½	* † Lincoln
Williams, John Bradley, B.S., 1919	SS	135½	* † Peoria
Williams, Lois Albertine	LAS		* † Fisher
Williams, Mae	Mus sp		* † Ewing
Williams, Marion Frances	Jnl		* † Chicago
Williams, Negley	EE		* † West Frankfort
Williams, Norman Baldwin	LAS	70½	* † Streator
Williams, Paul	SS		* † Paris
Williams, Paul Albert	Bus	100½	* † Freeport
Williams, Paul Ransom	Jnl	59½	* † Aurora
Williams, Richard Arlander	LAS		* † Mounds
Williams, Ruby	Bus (SS)	12	* † Shelbyville
Williams, Stanley Edward	REE	6½	* † Chicago
Williams, Statham Leon	LAS		* † Wilmette
Williamson, Elward Tyre	MedP	8	* † Iola, Kansas
Williamson, Frank Martin	CE		* † Albion, Michigan
Williamson, Harlan Aretus, B.S., 1919	SS	135½	* † Jacksonville
Williamson, Joseph Lindley	Bus		* † Jacksonville
Williamson, Kenney Ernest	Bus (SS)	71½	* † Champaign
Williamson, Marian	LAS	28½	* † Champaign
Williamson, Mary Eliza	SS	8	* † Chicago
Willis, William Arthur	ChE	36½	* † Rock Island
Willmers, Harry Dean	AE	8	* † Dubuque, Iowa
Wills, Leslie Ellsworth	LAS		* † Watseka
Wills, Ross Everett	Law		* † Griggsville
Willson, Florence Margaret	HELAS	64½	* † Mount Pleasant, Iowa
Willson, Jesse Howard	ChE		* † Hillsboro
Willson, Nell D	LAS	30½	* † Clinton
Willson, Ruth	LAS	59½	* † Clinton
Willy, John Knight	CE	39½	* † Chicago
Wilner, Edmond Charles	Bus	47	* † Chicago
Wilson, Abram Smith	CE	54½	* † Blairstown, New Jersey
Wilson, Arthur Jewell	MedP		* † Chicago
Wilson, Ashbel Ray	SS	97	* † Champaign
Wilson, Calvert Emmet	Bus	8	* † Rockford
Wilson, Cecile	Mus	61	* † Carbondale
Wilson, David Dill	Agr	8	* † Washington, D.

Wilson, Frederick Samuel	Agr		* † Olney
Wilson, Gail Jennings	Bus	88½	* † Carbondale
Wilson, George W	LG sp		* † Lake Forest
Wilson, Gladys Lee	Bus	60	* † DeKalb
Wilson, Glen Bradford	SS	5½	* † Greenville
Wilson, Harold Edwin	ChE	8	* † Geneseo
Wilson, Harry	LAS	57	* † Champaign
Wilson, Howard Thornton	Agr	33	* † Granville
Wilson, Imogen Fillmore	LAS		* † Chicago
Wilson, John Gilbert	Chem ssp		* † Centralia
Wilson, John Hawley	Bus	61½	* † Peoria
Wilson, John Hays	Flor		* † New Castle, Pennsylvania
Wilson, Joseph Charles, Jr.	EE	43	* † LaGrange
Wilson, Kenneth Leon	Agr (SS)	97½	* † Atwood
Wilson, Lewis Bender	Law	25½	* † Rock Island
Wilson, Lois Josephine	Bus	65½	* † Champaign
Wilson, Lyle Avery	CE	110	* † Hamburg
Wilson, Marian Elizabeth	Bus		* † Chicago
Wilson, Marion Graves	Arch		* † Chicago
Wilson, Mrs. Frances Douglass	LAS		* † Urbana
Wilson, Oscar August	AE	4½	* † Geneva
Wilson, Perry Robert	ChE	40½	* † Manhattan
Wilson, Ray Walker	Accy	115½	* † Princeton, Missouri
Wilson, Raymond Milton	EE		* † Newton
Wilson, Stanley Raymond	ME		* † Chicago
Wilson, Stephen Askew	LAS (SS)	104½	* † Chicago
Wilson, Thomas Drennan	Bus		* † Peoria
Wilson, Wallace William	AE		* † Oak Park
Wilson, Walter Chamberlain	Bus		* † Aurora
Wilson, Wesley David	CE	53½	* † Taylorville
Wilson, William Neal	Bus	5½	* † Urbana
Wilson, William Paterson, A.B., 1919	SS	140	* † Coal City
Wilt, Harry Maurice	MinE		* † Chicago
Wilton, Oliver Nenis	ME	70½	* † Lake Villa
Winans, Ruth	LAS		* † Olney
Winchester, Bessie Frances	HELAS	98	* † Urbana
Windsor, Laurence Charles	Bus	4	* † Batavia
Wine, Lois Marie	Jnl	64	* † Mt. Morris
Wingert, Betty	LAS	56½	* † Dixon
Wingert, Edward Boardman	LAS	5½	* † Dixon
Winget, Arleigh Ray	ME		* † St. Joseph
Wink, Nathaniel Edwin	ForC	8	* † Houston, Texas
Winkelmann, Mrs. Gail Gaunt, A.B. 1918	Mus irr	133½	* † Champaign
Winkelmann, Roland Earl	Law	50½	* † Champaign
Winklepleck, Velda	LAS	26	* † Manitoba, Canada
Winkler, Ross Wayne	Agr	112½	* † Newman
Winn, Ferne Abbie	HEAgr	66½	* † Richland Center, Wisconsin
Winn, Lawrence Lyle	LawP		* † Richmond
Winn, Marian Grace	LAS	32	* † Rockford
Winsborough, Calvert Swing	LG	78	* † St. Louis, Missouri
Winston, James Byers	MinE		* † Sturgis, Kentucky
Winter, Floyd Leslie	LAS	39	* † Wenona
Winter, Herman Porter	Ins	25½	* † Jamestown, Indiana
Winteringham, Sidney Potter	Bus	60	* † Aurora
Winters, Della Almada	LAS	31½	* † Augusta
Winters, Harriet Elizabeth	CCS		* † Champaign
Winters, Robert Wayne	Agr	5½	* † Walnut
Winterscheid, Kenneth Ervin	Agr	30½	* † Hennepin
Wirt, Jenness Mary	HEAgr		* † Rockville, Indiana
Wirth, Sidney Raymond	Bus	32½	* † Oak Park
Wirthlin, Melida Lee	LAS		* † Webster Groves, Missouri
Wise, Eleanor Lucille	HELAS	100	* † Cerro Gordo
Wise, Pauline Gertrude	LAS		* † Lexington
Wise, William Clair	Agr sp		* † Wilksburg, Pennsylvania
Wisely, Edson Wright	ChE	60	* † Terre Haute, Indiana
Wiseman, John Andrew	EE		* † Willow Hill
Wissen, Vernet Theodore	Accy		* † Rockford
Wissmath, Evelyn Wilhelmina	HELAS		* † St. Louis, Missouri
Withers, Clarence Wilford	SS		* † Champaign
Witt, Frank Jacob	EE	22½	* † Sidney
Witte, Paul Frederick	ME	125½	* † Louisville, Kentucky
Witters, Josef Edward	LAS	50½	* † Grand Rapids, Michigan
Wittick, Henry Ayres	RT		* † Peoria
Wittlig, Karl Wilhelm	LAS		* † Champaign
Wittmann, Robert Alfred	ME	34½	* † Chicago
Witwer, Frederick Minor	Bus	29½	* † Champaign
Woare, Edward Martin	Bus	9½	* † Horvey
Woelfel, Leta Grace	Chem	30	* † Chicago
Woelfersheim, William Arthur	Bus		* † Chicago
Wohlforth, Louise	LAS sp		* † Champaign
Wolcott, Katherine Minard	HELAS	32	* † Batavia
Woleben, Fred Alvin	Flor	56	* † Marengo
Woleben, Marion Lois	LAS	99½	* † Chicago Heights
Wolf, Fred Orville	Bus		* † San Bernardino, California
Wolf, Ruth Estelle	Jnl		* † Gary, Indiana
Wolfe, Donald	Agr	6	* † Arlington

Wolfe, Grayce Catherine	LAS		† Chicago
Wolfe, Richard Edward	CE		* † Chicago
Wolff, Bernice Serena	HELAS		* † Urbana
Wolff, David Alexander	LawP	64½	* † Champaign
Wolff, Samuel Saul	EE	37	* † Chicago
Wolfner, Herbert	ChE		* † Chicago
Wolfram, Harold George	CerE	8	* † Des Plaines
Wolgast, Pauline Johanna	HELAS		* † Danforth
Wolgast, Ruth Esther	LAS		* † Danforth
Wolk, Wade Franklin	CE	24½	* † El Paso
Wolter, Julius William	LawP	61½	* † Lemont
Womacks, Harold Bailey	AE	8	* † Ogden
Wong, Keng Woon	LAS (SS)	73½	* † Canton, China
Wong, Po Ki	Chem (SS)	8	* † Hongkong, China
Woo, Thomas Tsze Chung	LAS	109½	* † Washington, D. C.
Wood, Annetta Lois	LAS	33½	* † Decatur
Wood, Frank	CE	4½	* † Tulsa, Oklahoma
Wood, John Bugbee	Chem	30½	* † Galesburg
Wood, May Burt	Bus		* † Chester, New York
Wood, Paul Washington, Jr.	CE	83½	* † Carrollton
Wood, Ruth	Mus	16	* † Rensselaer, Indiana
Wood, Wilbur Stuart	MedP	36	* † Decatur
Wood, William Douglas	Bus	32	* † St. Louis, Missouri
Woodbridge, Dudley Warner	CE	121	* † Champaign
Woodbury, Clarence Moats	CE	8	* † Kansas City, Missouri
Woodruff, Helen Blanche	Jnl	29½	* † Savanna
Woodruff, Margaret Emma	HELAS		* † Chicago
Woods, Florence Mary	Ed (SS)	62½	* † Champaign
Woods, Lucy	LAS	30	* † White Hall
Woods, Wilbur James	Bus	32	* † Orange, California
Woodward, Agnes Ethel	HELAS	50½	* † Odin
Woodworth, Paul Merrylees	Agr	101	* † Chicago
Woody, Silas Gibb	Bus	6½	* † Park Ridge
Woody, William Leslie	Bus	2½	* † Park Ridge
Wooley, Warren Wycliffe	AE	14½	* † Champaign
Woolford, Joseph Sidney	LAS	8	* † Sparta
Woolley, Russell Brooks	Bus	26	* † Champaign
Worden, Laura Belle	HELAS	91½	* † Harvard
Worley, John Clark	ME		* † Lewistown
Wormley, Lorentz Englehart	MinE	71½	* † Kinnmundy
Worrell, Nathan Burton	Agr	26½	* † Bowen
Worthington, Frank Lancaster	ME	66	* † Doylestown, Pennsylvania
Worthington, Leslie Berry	Bus		* † Witt
Woulfe, Henry Francis	Bus	33	* † Chicago
Wrede, Bertram Alfred	CE	128	* † Chicago
Wreith, Boyd George	Bus		* † Ancona
Wright, Abbie	Mus		* † Manteno
Wright, Clarence Salmon	ME	71½	* † Oak Park
Wright, Donald Townsend	ChE	107	* † Chicago
Wright, Edward Edwards	Ath	11½	* † Dundee
Wright, Francis Marion	ME	99½	* † Urbana
Wright, Genevieve Clarissa	HEAgr	60½	* † Chicago
Wright, Harold Abbott	ME		* † Oak Park
Wright, Harry Baker	Fus	8	* † Carrollton
Wright, Howard Leroy	EE	108½	* † Mt. Carroll
Wright, Howard Marion	EE	2	* † Egan
Wright, Kenton Robert	ME		* † Urbana
Wright, Mary Helen	LAS		* † Champaign
Wright, Robert L.	Voc esp		* † Greenville
Wright, Wilbur Leonard	SS	6½	* † Belington, West Virginia
Wright, William Hewson	EE		* † Lawrenceburg, Indiana
Wrisley, Lawrence Norton	Bus		* † Chicago
Wrobke, Frederick Dewey	Bus	98	* † Maywood
Wu, Lih Ming	ChE	16	* † Shanghai, China
Wuerker, Adolph Kirsch	Bus	117½	* † Alton
Wuesteman, Adelbert Earnest	ME (SS)	33½	* † Champaign
Wulff, Ernesto Augustin	EE		* † Caracas, Venezuela
Wunderlich, Carl Lester	Bus		* † South Bend, Indiana
Wunderlich, Donald Ferris	Bus		* † Dubuque, Iowa
Wurst, Henry Ebert	Bus	10	* † Davenport, Iowa
Wurtsbaugh, Leroy A.	SS	8	* † Lawrenceville
Wylie, Mrs. Lirl Bunn	Mus sp		* † Three Rivers, Michigan
Wynd, Clarence Leon Alexander	ChE	35	* † Peoria
Wyne, Eleanor Elizabeth	LAS	65	* † Vermont
Yackel, Walter Carl	MinE	19½	* † Alton
Yackey, Cordelia Olive	HELAS	94	* † St. Louis, Missouri
Yackey, George Frederic	ME		* † St. Louis, Missouri
Yackey, Harold Hilgard	ME		* † St. Louis, Missouri
Yackle, Stella May	SS	15½	* † Nokomis
Yale, Charles Ernest	Agr	51	* † Aurora
Yamamoto, Thomas Kohzchiro	Chem	59	* † Los Angeles, California
Yantis, Ruth	Bus		* † Urbana
Yard, Percy Wyverne	LAS		* † Macomb
Yates, Howard Noble	ForC	41	* † Buffalo, New York
Yates, Stella Day	SS	6	* † Baylis
Yaxley, Ethel Gladys	LAS	45½	* † Medina, New York



Yeager, Dean Clifford	CE		* † Lena
Yeager, Lloyd Hervey	ME	89	* † Douglas, Arizona
Yeager, Lowell Camden	EE	129 <sup>a</sup> <sub>10</sub>	* † Cheyenne, Wyoming
Yeager, Myron Chapman	EE		* † Cheyenne, Wyoming
Yearsley, Mary	LAS	5	* † Urbana
Yeh, Kung Suei	ME		* † Tientsin, China
Yockey, David Edwards	Bus	38	* † Monticello
Yockey, John Clarence	MedP	33 <sup>1</sup> <sub>3</sub>	* † Monticello
Yost, Howard Allen	LAS	80	* † Kansas City, Missouri
Young, Arthur Augustus	LAS		* † Arima, B. W. I.
Young, Arthur William	MedP	46 <sup>1</sup> <sub>2</sub>	* † Aurora
Young, Clyde Cyrenius	Bus	10	* † Monmouth
Young, Edith Helen	LAS (SS)	37 <sup>1</sup> <sub>3</sub>	* † East Moline
Young, Edmund Valient	MedP	30	* † Aurora
Young, Edwin Warren	Agr	30	* † Oklahoma City, Oklahoma
Young, Everett Lewis	ME		* † Chillicothe
Young, Frank Lester	LAS	8	* † Clyde, Ohio
Young, Garred Francis	CE	40	* † Springfield
Young, Geraldene Louise	LAS		* † Pawnee
Young, Gordon Mark	Agr sp		* † Centuria
Young, Marjorie Pearl	HELAS		* † Lawrenceville
Young, Russell	EE	8	* † Rossville
Young, Russell John	Arch		* † Kokomo, Indiana
Young, William Foster, Jr.	Jnl	1	* † Chicago
Young, William Morris	EE	69	* † Omaha, Nebraska
Youngman, Wilbur Hughes	FOM	66	* † Santa Paula, California
Youngs, Donald Heard	ME	17 <sup>1</sup> <sub>2</sub>	* † Freeport
Yu, Chi Chuan	LAS (SS)	43 <sup>1</sup> <sub>2</sub>	* † Washington, D. C.
Yu, Jih Chuan	RCE (SS)	71	* † New York, New York
Yuen, Kwok Sham	RCE (SS)	52	* † Canton, China
Zaleski, John Thaddeus	ForC	46 <sup>1</sup> <sub>2</sub>	* † Chicago
Zearing, George E	Bus	12	* † Princeton
Zeek, Leo Donnell	EE	34	* † Chicago
Zehr, Henry Gesa	ME	74	* † St. Louis, Missouri
Zeiders, Emil Philip	Agr	67	* † Mansfield
Zeilman, Charles Kautz	Ath	49	* † Guilderland, New York
Zell, Oscar Stephen	Agr	2 <sup>1</sup> <sub>2</sub>	* † Cayuga, Indiana
Zellhoefer, Glenn Faber	Chem (SS)	60	* † Le Roy
Zelvaian, Yervant	Agr		* † Mesira, Turkey
Zepeda, Emique Marius	LAS sp		* † Chiapas, Mexico
Ziegenhagen, Adele Clara	CCS		* † Oak Park
Ziegler, Arthur William	EE	87	* † East St. Louis
Ziegler, John Wesley	ChE (SS)	119 <sup>1</sup> <sub>2</sub>	* † East St. Louis
Ziemann, Harry John	Arch	73	* † Milwaukee, Wisconsin
Ziener, Gregor Athalwin	LAS	37	* † Altamont
Zieroth, Edward Henry	Agr	70	* † Chicago
Ziese, Fred Wolter	SS	6 <sup>1</sup> <sub>2</sub>	* † Sullivan
Zika, Marie Lydia	HEAgr	66	* † Chicago
Zimmer, Ernst Linn	CE	68 <sup>1</sup> <sub>2</sub>	* † Kansas City, Missouri
Zimmer, Rita Aileen	LAS		* † Gibson City
Zimmerman, Dwight Jacob	Bus sp		* † Ashmore
Zimmerman, John Harvey	ME (SS)	70	* † Chicago
Zimmerman, Nelson John	Lav sp		* † Effingham
Zimmerman, Pauline	HELAS		* † Anderson, Indiana
Zimmerman, Ruby Camille	LAS	49	* † Oakland
Zimmermann, Albert Jobst	Bus	43	* † Peoria
Zimmermann, Harry Gustav	LavP	116 <sup>1</sup> <sub>2</sub>	* † Peru
Zink, Hal Humphrey	EE		* † Kansas
Zinn, Kenyon Cooper	ME	8	* † Chicago
Zinser, Clayton Meves	Bus	42	* † Peoria
Zoll, Frances	LAS	30 <sup>1</sup> <sub>2</sub>	* † Arlington Heights
Zoll, Rose Adeline	LAS		* † Arlington Heights
Zook, Richard Maxwell	EE	8	* † Hoopston
Zuckerman, Benjamin Selman	AE	114	* † Chicago
Zuckerman, Joseph Samuel	ME	32	* † Chicago

## COLLEGE OF MEDICINE

Name	Year	Residence
Abrahams, Samuel	2	Ohlong
Adler, Julius	1	Chicago
Adrachinsky, Isaac	1	St. Louis, Missouri
Albach, Maurice	1	Chicago
Albrecht, Paulus Gerhard, Ph.D.	1	Chicago
Alcivar, Ernest	1	New York, New York
Alesen, Lewis Albert, B.S.	3	Detroit, Michigan
Allen, George Albert, B.S.	4	Clinton
Anderson, Bertha Maria Gumilla, Pd.B.	2	Denver, Colorado
Antonio, Ambrosio Ysidro, A.B.	4	Orion, Bataan, Philippine Isds.
Apple, Carl	1	Chicago
Aries, Philip, B.S.	3	Chicago

\*Numbers indicate first, second and third year of the medical course; G, graduate student in medical science.

Asnquist, A Samuel, B.S.	4	New Richmond, Wisconsin
Aahley, Rea Ernest, B.S.	4	Denver, Colorado
Bacon, Carl Alfons	3	Chicago
Bailey, Bayard Melvin	2	Chicago
Baker, Eugene Lester	1	Chicago
Baumgartner, George John	1	Forest Park
Baxter, Lewis Thomas	4	Astoria
Bendeke, Edle Lillian	3	Mentor, Minnesota
Bernheimer, L Benno	3	Terre Haute, Indiana
Bernan, Simeon Leo	2	Chicago
Blair, Edgar Theron, B.S.	4	Chandlerville
Bock, Coleman Alex	2	Des Moines, Iowa
Bloom, Arthur Ruben	2	Chicago
Borne, Arthur Reuben, B.S.	4	Savanna
Bollman, Jesse Louis, A.B., M.S.	2	Springfield
Boner, Albert Jay	2	Chicago
Boughton, Thomas Harris	G	Wilmette
Brams, Julius, B.S.	3	Chicago
Braxton, Paul Jones, B.S.	3	Chicago
Braxton, Albert Sam	1	Terre Haute, Indiana
Brosius, Ernest Julius, D.D.S., B.S.	4	Detroit, Michigan
Browne, William Harcourt, B.S.	3	Chicago
Buhrman, William Lane	2	Chicago
Briett, Richard Clare, B.S.	3	Nashville
Burt, William	2	Orange, California
Byers, William Mitchell	1	Chicago
Cack, Ladislav, B.S.	4	Spokane, Washington
Carley, Paul Sterling, B.S.	3	Chicago
Caron, Robert Paul	1	Buckley
Carter, William McKinley, A.B.	4	Kankakee
Chapman, Howard William, B.S., A.B.	4	Bowbells, North Dakota
Chapman, Leonard Louis	2	Chicago
Chenoweth, Frank Leland, B.S.	3	Chicago
Clarke, George Edward	4	Mason City
Cline, Gerald M, B.S.	4	LeRoy
Cutter, Oswin Ray	G	LeRoy
Cohen, Abe Wilbur	1	New Concord, Ohio
Cohen, Carl, B.S.	4	St. Paul, Minnesota
Coleman, John Spurgeon, B.S.	3	Atlanta
Coron, Harold Pee	1	Halstead, Kansas
Cotté, Maurice H, B.S.	4	Springfield
Craddock, John W., B.S.	4	Chicago
Crawford, Neal Dow, B.S.	3	Chicago
Crawford, Woodruff Lynden, B.S.	4	Luxerne, Minnesota
Crisostomo, Francisco	1	Chicago
Cromley, William Wallace	1	Chicago
Curtis, William	4	Chicago
D'Alcorn, Ernest Napoleon, B.S.	3	Chicago
Davis, John Dwight, A.B.	3	Genoa, Nebraska
Davidson, Thorald Edward, B.S.	1	Suvaldale, Iowa
Davison, Charles Marshall, B.S.	4	Chicago
DeFreitas, Clement	1	Guiana, South America
Dennis, Howard Olney, B.S.	3	Clovis, New Mexico
Dessent, Robert	1	Chicago
Dewey, Jay Reed	2	Morville, Iowa
Diller, Harold Francis, B.S.	4	Rantoul
Dillon, John Joseph	1	Chicago
Dona, Pedro J	3	Chicago
Donaly, Marie Ruby	2	Chicago
Dopovan, Edward Vincent, B.S.	4	Cartersville
Doolen, Glenn Wesley	2	Chicago
Draper, Lawrence Francis, B.S.	4	Dodville
Drues, Isadore Abraham	2	Clinton
Edwards, Howard Milton	1	Chicago
Eddin, Louis	2	Lee
Ehrlich, Maximilian Charles, B.S.	4	Chicago
Elfeld, Persis	2	Chicago
Elvidge, George	4	Arlington Heights
Engerman, Max, B.S.	4	Lone Rock, Iowa
Epstein, David	1	Chicago
Esquadro, Beigemo V	1	Chicago
Etherton, Fred Snider	1	Cabanguan, Philippine Islands
Eye, Charles Harold	1	Carbondale
Faxon, Donald Eugene	2	Wyoming, Iowa
Feldman, Louis	1	Sandwich
Pietz, Erwin Richard	1	Chicago
Fischer, Walter Rathfon, B.S.	4	Chicago
Fitch, Franklin Ransom, B.S.	3	Chicago
Fleischner, Julius	2	Chicago
Focke, William John, B.S.	3	Chicago
Ford, Hanby Lewis, B.S.	4	Chicago
Freark, Ray Henry, B.S.	4	Flat Rock
Gabriel, Carson King, B.S.	4	Champaign
Gainer, John Fisher, B.S.	3	Payson
Garrison, George Harry	1	Palatine
Gernon, Gerald Deland, B.S.	4	Urbana
		Kankakee

Goff, Charles Weer	1	Davenport, Iowa
Goldberg, Bernard	1	Chicago
Goldberg, Joseph	3	Chicago
Goldblatt, Louis, B.S.	4	Chicago
Goldenson, Max Julian	3	Chicago
Goodwin, Marcus	1	Chicago
Gottschalk, True Palmer	1	Berne, Indiana
Gordon, Harry, B.S.	3	Chicago
Gramer, Edward Phillip, B.S.	4	Chicago
Greengard, Joseph	1	Chicago
Greenwood, Ray Ellsworth, B.S.	4	Kankakee
Groos, Harold Quinten	1	Escanaba, Michigan
Gussin, Harry	1	Detroit, Michigan
Gwin, Ethel Anna, B.S.	4	Modesto, California
Hadden, Shirley Louis	1	Chicago
Hahn, James Pendleton	1	Greenville, South Carolina
Hansen, Adolph Marius	1	Los Angeles, California
Harris, Richard August	1	Quincy
Harris, Sigil Clance	1	Wilmot, South Dakota
Hartzler, Archie David	1	Bellefonte, Pennsylvania
Hebeisen, Milton Boyce, B.S.	3	Carver, Minnesota
Heinekamp, Walter J. R., B.S.	3	Chicago
Heller, Henry Frederick, B.S.	4	Des Plaines
Hershey, Charles Owen	3	La Junta, Colorado
Hoffman, Ralph Wesley, B.S.	3	Waterloo, Iowa
Horn, Isidore	1	Chicago
Hoskins, James Howard	1	Rolla, North Dakota
Hospers, Anthony	3	Pella, Iowa
Hughes, Clarence Orville	2	White Heath
Hyatt, Emory G., B.S.	4	Macon, Missouri
Imbierski, Stanley J.	1	Chicago
Irvine, George B., B.S.	4	Lake City, Minnesota
Isaac, John	1	Chicago
Janicki, Stanley Florin	1	Chicago
Jensen, Ingvald	3	Chicago
Jewell, Harrison Bonwell, B.S.	3	Coon Rapids, Iowa
Jewell, John Holly	3	Coon Rapids, Iowa
Johnson, John Walter, B.S.	4	Chicago
Johnston, James Paul	3	Hampton, Iowa
Jongewaard, Jeanette	2	Orange City, Iowa
Kaiser, Karl J., B.S.	4	Aurora
Karbelnig, Morris	1	Chicago
Karlin, Isaac	1	Chicago
Karras, George Lygurgus	1	Chicago
Kellogg, Douglas Sheldon	1	Des Moines, Iowa
Kelly, Edward Joseph	1	Chicago
Kelly, John Francis	1	Vincennes, Indiana
King, (Mrs.) Paz G	1	Chicago
Klein, Jacob	1	Chicago
Knauer, Sophia Adeline, B.S.	3	Brooklyn, New York
Kobak, Alfred	2	Chicago
Kordenat, Ralph August, B.S.	3	Oak Park
Kraft, Adolph, B.S.	3	Gilman
Kryder, George Buchanan, B.S.	4	Freeport
Latbe, Joseph E	3	Chicago
Lambertson, Everett Raymond, B.S.	4	Chicago
Laus, Nathaniel Benjamin	1	Chicago
Lansche, Elmer Arnold	1	Brighton
La Rocca, Joseph, B.S.	4	Chicago
Lawn, Hugh Edward	1	Minneapolis Minnesota
Lenit, Harold Walter	1	Chicago
Leonard, Ruth, A.B., B.S.	4	Chicago
Levin, Abe Louis	3	Chicago
Levin, Benjamin Mordecai	1	Chicago
Lintner, Roy Christian	1	Chicago
Little, Ethel Esther, B.S.	3	Champaign
Litton, Louis	1	Chicago
Livingston, George Shaynin	6	Chicago
Loughery, Harold Barker, B.S.	3	Palestine
Lucas, Frank Blackburn	1	Chicago
Magath, Thomas Byrd, Ph.B., M.S., Ph D.	4	Oxford, Georgia
Magill, Clark Russell William	1	Sullivan
Mahr, Chauncey Carter	1	Payson
Maizus, Saul Hyman	2	Chicago
Mandel, Harry	1	Chicago
Mandel, Robert Meyer	2	Chicago
Mann, William Alfred	2	Wilmette
Marvan, Harry I	2	Chicago
Mathre, Albert Ilmer	1	Chicago
Merchant, Henry Alpheus	1	Lexington, Kentucky
Merrill, Charles Leo, B.S.	4	Richmond, Utah
Merrill, Don Clayton, B.S.	3	Richmond, Utah
Metcalf, George Stanley, B.S.	4	Janesville, Wisconsin
Meyer, Harold Irving	2	Marissa
Miller, Myron H., B.S.	4	Chicago
Mills, Morton Joseph	1	Chicago

Mitchell, Raymond Ervin	2	Gary, Indiana
Moeur, John Kelly	2	Tempe, Arizona
Murphy, Samuel Alfred	4	Madison, Wisconsin
Monroe, Paul Burns	2	Fond du Lac, Wisconsin
Montezon, Apolonio Fernin	1	Tacloban, Philippine Islands
Mroz, Rudolph, B.S.	3	Chicago
Mulfinger, Carl Leonard, B.S.	3	Meadville, Pennsylvania
Myers, William Henry	2	Coal Valley
McCoy, Edwin Earl	1	Monmouth
McCoy, Harold James	4	Imperial, Nebraska
McCradie, Andrew Ross	4	Grandin, North Dakota
McCradie, Robert Drinnan, A.B.	4	Grandin, North Dakota
McGrath, Floyd Lawrence	1	Savanna
McIntire, Emery J.	1	Kansas City, Missouri
Naroditsky, Samuel, B.S.	4	Chicago
Nemerofsky, Jacob	3	Chicago
Newman, Melvin Max	1	Chicago
Nickels, Arnold Carl, B.S.	3	Watertown, Wisconsin
Nielson, Johannes	1	Chicago
Noonan, William James, B.S.	4	Elma, Iowa
Norviel, Herald Bernard, B.S.	4	Urbana
Ochs, Milton M.	4	Oak Park
Oliver, Henry Earle	4	Sigourney, Iowa
Olson, Albert Eric, B.S.	4	Duluth, Minnesota
Ostler, David Elmer, B.S.	4	Salt Lake City, Utah
Owens, Celia Evelyn	1	Battle Creek, Michigan
Parker, James W., Jr.	4	Peoria
Paskind, Harry A., B.S.	4	Chicago
Pauker, Norbert, B.S.	4	Chicago
Paul, Berenice Marie, A.B.	2	Chicago
Peterson, Joel Asbury	1	Linnsburg, Indiana
Petrass, Andrew, B.S.	4	Chicago
Pianko, Helene	2	Chicago
Pickoff, Fred, B.S.	4	Mohileff, Russia
Pilka, Herman	2	Chicago
Pinkerton, Roger Edmond, A.B., B.S.	3	Pawnee City, Nebraska
Plice, Samuel Glenn, B.S.	3	Chicago
Polkovitz, Marnie Arnold	3	Chicago
Pontius, Guy Victor	2	Rochester, Indiana
Potts, Albert LeRoy	2	Honey Bend, Indiana
Prilla, Evsay	2	Chicago
Przypyszny, Casimir, B.S.	3	Chicago
Raginsky, Oscar, B.S.	3	Chicago
Ralston, John Francis	1	Blue Island
Rackliffe, Thomas Thayer	4	St. Joseph, Missouri
Rappaport, Benjamin	2	Chicago
Reeves, Dwight Coleman	1	Chicago
Reinhard, Otto Andrew	2	Monticello
Rettig, Frederick August, B.S.	3	Cullom
Reuther, Theodore Ferdinand	1	Chicago
Riess, Carl John	1	Effingham
Richmond, Frank, B.S.	3	Pontiac
Rissinger, Arthur Joe	2	Chicago
Rosenberg, Maurice Joseph, B.S.	3	Mason City
Rost, Theodore August	3	Chicago
Rozinsky, Julius, B.S.	3	Petersburg
Rubin, Henry Harry	2	Chicago
Rubin, Irwin, B.S.	3	Chicago
Rubright, Franklin LeRoy, B.S.	4	Chicago
Rudnick, Dorrin Fred	3	Emerson
Rutledge, James Hirst	2	Chicago
Ruppenthal, Armond, B.S.	4	Farmer City
Rush, Paul White, B. S.	3	Brillion, Wisconsin
Saelhof, Clarence Charles, B.S.	3	Detroit
Saltiel, Thomas Paine	1	Chicago
Schechter, William	1	Chicago
Schermeister, Harold Edward	1	Chicago
Seuerian, Arshag	1	River Forest
Schmidt, Herbert Julius	4	Ripon, Wisconsin
Schroeder, Robert Henry	3	Chicago
Shapiro, Irving Joseph, B.S.	3	Nashville
Shurtleff, Raymond Shryock, B.S.	4	Chicago
Sinai, Mrs. Lena	2	Cuba
Slaughter, Mrs. Mary Gertrude, B.S.	4	Chicago
Smith, Beulah Marie	2	Chicago
Smith, Elizabeth Belle, A.B.	1	Chicago
Smith, John Frederick	1	Carthage
Sodaro, Joseph Clarence	1	Montpelier, Ohio
Soloway, Herman Milton	1	Aurora
Spector, Hyman	3	Minneapolis, Minnesota
Spiesman, Irwin Gabriel, B.S.	3	Chicago
Sponder, Joseph, B.S.	4	Chicago
Stevenson, Joseph Bonsall, A.B.	4	Chicago
Stewart, Frank, A.B.	4	Sioux Falls, South Dakota
Stone, Theodore Thaddeus, B.S.	4	Chicago
Stoops, Richard Boothby, A.B.	1	Champaign
		Chicago
		Ipava

Stromberg, William Benjamin, B.S.	4	Chicago
Testin, Henry	3	Joliet
Thompson, Fred Rush, B.S.	4	Cedarville
Tolpin, Samuel	2	Chicago
Traisman, Alfred Stanley, B.S.	3	Chicago
Tranter, Paul W	1	Armour, South Dakota
Tygett, Glenn Joseph	1	Jonesboro
Ullman, Manfred Prescott	2	Oak Park
Van Pelt, Theodore Ross, B.S.	3	State Center, Iowa
Ventress, Ward Huston	2	Monmouth
Walker, Robert Allyn, B.S., A.B.	4	Alhambra, California
Warmolts, Lambertus, B.S.	4	Oregon
Warren, Homer Samuel, Jr., B.S.	3	Chicago
Wead, John Trimmer	1	Wyoming
Weber, Leonard Fred	3	Gilman
Wehringer, Henry George	1	Chicago
Welensky, David Arthur	2	Chicago
Werner, Peter J, B.S.	4	Chicago
Wessels, Marie	1	Quincy
White, Cyrus Lanyon, B.S.	4	Mineral Point, Wisconsin
White, Mary Agnes	1	Chicago
Wilburn, Vernon Homer, A.B.	4	Lawrence, Kansas
Wilke, Carl August	1	Blue Island
Williams, Frank K	1	Townely, Alabama
Wilson, Clarence Leon, B.S.	4	Carbondale
Wilson, Julian Harmon	2	Columbus, Ohio
Wishniefsky, Louis J	3	Whiting, Indiana
Wittelle, Frank Max, B.S.	4	Chicago
Wood, Cordelle Atherton	1	Amboy
Woods, Ralph A, B.S.	4	Orange, California
Woodruff, George Henry, B.S.	4	Joliet
Wright, Leon Alton	1	Mattoon
Wright, William Edson, B.S.	4	Gifford
Yahya, Mohammed Abbas, B.S.	1	Aramon, Syria
Yonkers, William	3	Chicago
Zahajkiewicz, Vincent	1	Chicago
Zeitlin, Nathan	2	Chicago
Zulaybar, Safronio	3	Lilio, Philippine Islands

## COLLEGE OF DENTISTRY

Name	Year	Residence
Anderson, Melvin Edward	1	Lynn Center
Arado, Mae	2	Chicago
Baewsky, Morris	1	Chicago
Barnes, George Francis	1	Whitehall, Montana
Bancroft, John Wesley	3	Greenup
Barton, William Henry	1	Litchfield
Beard, Guy Edward, M.D.	2	Chicago
Berger, Maurice	2	Chicago
Beshoar, Daniel L	2	Burnetts Creek, Indiana
Bezkostry, Frank	1	Chicago
Bird, Boyden	1	Springville, Utah
Black, Russell F	2	Beardstown
Bluestein, Bernard Tobias, D.D.S.	sp	Chicago
Boeck, Walter O	2	Chicago
Bollman, Robert W	1	Sturgis, Michigan
Bone, George Dewey	1	Homer
Boyd, Russell C	1	Dunkirk, Indiana
Brady, John Charles	1	Amboy
Brinkman, Henry	3	Elgin
Brown, Bradford Thomas	3	Chicago
Buchmiller, Leroy John	1	Deweyville, Utah
Butler, James Arthur	1	Chicago
Cady, Gerald Willis	1	Mason City, Iowa
Call, Charles Clarence	1	Springfield
Cassut, Lewis B	4	Seattle, Washington
Campbell, Norman Proctor	1	Cashlon, Wisconsin
Capenegro, Sebastian	1	Chicago
Casad, Sylvan Clate	1	Marinette, Wisconsin
Chapman, Joseph	3	Chicago
Clark, Charles Shelby	3	South Bend, Indiana
Clark, Glenn Earl	1	Wellington
Classen, Edwin	3	Gilman
Clinite, Harold F	1	Rochelle
Coe, Emmons Sylvester, A.B.	3	Bucyrus, Ohio
Cowin, A A, D.D.S.	sp	Chicago
Cullen, Vern Richard	1	Austin, Minnesota
Dahlke, Walter Gilbert	3	Westfield, Wisconsin
De Koven, Edward	1	Chicago
Di Cosola, Salvator	4	Chicago
Dodge, Charles H, D.D.S.	sp	Chicago
Doty, Harry R	1	Amboy
Dowgiallo, Irene Emily	1	Chicago

Droher, Philip	1	St. Joseph, Missouri
Druess, Lionel Nathan	4	Chicago
Dunn, Robert Winlock	3	Beardstown
Dunlap, Deloraine Keith, A.B.	2	Ripon, Wisconsin
Dyer, Louis A.	3	Danville
Eisenbrand, George F.	1	Hubbard Woods
Elfenbaum, Hyman	2	Chicago
Entriken, W. Earl	4	Brainerd, Minnesota
Finnegan, John	2	Homer
Fitz Henry, Dale	1	Gibson City
Ford, Anthony Edward	1	Youngstown, Ohio
Frampton, Frank Roy	1	Pleasant Grove, Utah
Garman, Kenneth	1	Chicago
Gray, William Lewis	1	Lafayette, Indiana
Grindy, Adolph Henry	1	St. Paul, Minnesota
Gold, Abe Elmer	1	Chicago
Goldman, Max	1	Chicago
Goldman, Bernhard	1	Chicago
Goodfriend, Ervin	3	Chicago
Gould, Seymour Noah	1	Chicago
Greenwood, Robert G.	3	Chicago
Grief, Uhlman	3	St. Joseph, Missouri
Hall, Kenneth Alexander	1	Hornell, New York
Harris, Michael N.	1	Peoria
Harvey, Ward Winfield	2	Bridgewater, South Dakota
Harvey, Ralph Frame, B.S.	2	Chicago
Hayes, Cecil A.	2	Detroit, Michigan
Hedges, LeRoy Ellis	1	Chicago
Hermes, Elmer A.	2	Aurora
Hevesh, Joseph, A.M.	2	Chicago
Hill, Rabor Lyon, A.B.	1	Newberry, South Carolina
Hill, Clifton Jerome	1	Benton
Hines, Harry C.	2	Champaign
Hohman, Ralph H.	2	Nashville
Holt, Leonard C.	1	Owen, Wisconsin
Houston, John Marion	1	Pleasant Grove, Utah
Hoyt, Lloyd Dillas	1	Desmet, South Dakota
Hughes, Luther	2	Mason City
Iglowitz, Jacob	1	Chicago
Jager, Elizabeth	1	Voss, Norway
Jones, Claude	3	Camp Point
Jones, John	2	Mason City
Kayla, Emily-Houda	4	Cicero
Kingdon, Sidney P.	1	Chicago
Kingston, Neil A.	1	Hornell, New York
Koppel, Louis	4	Milwaukee, Wisconsin
Krabbe, Newton J.	2	Champaign
Krauser, Elba	2	Bushnell
Kretshmer, Sam	2	Chicago
Kurachi, Shozo, D.D.S.	4	Ken, Japan
Lachout, Anna	2	Borotin, Czecho-Slovakia
Laiken, Eli	2	Milwaukee, Wisconsin
Lande, Harry	2	Chicago
Langenbahr, Philip H.	1	South Bend, Indiana
Lemaster, William	1	Kankakee
Lewbin, Hyman	3	Chicago
Levy, James Evans	1	Camden, South Carolina
Lewis, Jacob	2	Chicago
Lipsey, Maurice Bernard	1	Chicago
Liscom, Jason Leslie	1	Beardstown
Luczak, Leon F.	1	Chicago
Lux, Earl M.	1	Streator
Maits, Aage	4	Copenhagen, Denmark
Maki, Jeremias	1	Chicago
Malter, Ernest	4	Oak Park
Marshall, Benjamin	1	Ormsiah, Persia
Martin, Bruce Crittendon	1	Chicago
Menning, Theodore J.	1	Chicago
Metcalf, Leonard Lawrence	1	Streator
Middleton, Louis Richard	2	Chicago
Middleton, William	3	Argos, Indiana
Moeller, Fred Paul	1	Lakefield, Minnesota
Moldenhaur, Alfred	2	Algonquin
Mollenkopf, Evan	2	Conway, Ohio
Moore, John Henry, A.B.	3	Wynn, Arkansas
Munns, Charles Arthur	1	Brigham City, Utah
Munro, Edward F.	3	Oak Park
McBroom, Frank Leslie	1	Woodstock
MacPherson, Cecil Alexander	1	Sidney
McNear, Philip Martin	1	Columbia City, Indiana
Neff, Eda Dee	2	Bethany, Missouri
Nielson, Lorrin Russell, B.S.	1	Monmouth
Nielson, Andrew Groat	3	Chicago
Nowicki, Edward	3	Chicago
Noyes, Harold	1	Park Ridge
O'Donoghue, James M.	1	Chicago

Offenlock, Howard Hall	3	Chicago
Olech, Eli	1	Chicago
Orr, Malcolm Rufus	1	Decatur
Payton, Robert Charles	1	Chicago
Phillips, Russell M	1	Springfield
Potts, Leslie E	1	Gibson City
Prehn, Delos Carl	3	Wausau, Wisconsin
Purtell, John Vincent	1	Chicago
Pusstelnik, Meyer	1	Chicago
Raab, William Edward	1	Carlinville
Ramos, Aurelio, A.B.	1	Manila, Philippine Islands
Rea, Richard Spalding	1	Elgin
Rehn, Henry	1	Chicago
Reese, William E	3	Paysan City, Utah
Ritter, Lyman	1	Chicago
Rock, William	2	Dixon
Rockey, Clinton G	3	Joliet
Rosen, Sam	2	Chicago
Ryan, Edward James	3	Chicago
Rybacek, Clement Frank	1	Cicero
Safir, Jacob A	1	Chicago
Saito, Nobukazu, D.D.S.	4	Tokyo, Japan
Sennes, Dedrik	4	Madison, Wisconsin
Saperstein, Zachery	2	Balta, Russia
Schmechevier, Willis	2	Chicago Heights
Schindler, Edwin	3	Kalamazoo, Michigan
Schneiderman, Martin Samuel	1	Chicago
Scott, Frank Earl	1	Mullen, Idaho
Schuler, Raymond Charles	1	Henryville, Indiana
Schultz, Louis	4	Oak Park
Schwartz, Harold	1	Chicago
Schur, Irving Carl	1	Kenilworth
Shapiro, Louis Arthur	1	Chicago
Silhan, George Anthony	1	Chicago
Skuding, Roman T	1	Chicago
Smith, Robert Bruce	1	Rowlesburg, West Virginia
Snow, James M, D.D.S	sp	Chicago
Stroka, John Julius	1	Chicago
Stallard, Harvey, Ph.D	4	Minneapolis, Minnesota
Stark, Boyd Emerson	1	Fargo, North Dakota
Stockstad, Walter Ralph	3	Volga, South Dakota
Strilky, Maurice	2	Chicago
Stuenkel, Ernest G	2	Brookfield
Sturman, Henry	2	New York City, New York
Swain, Harold	2	Kewanee
Swedberg, Paul	1	Marshalltown, Iowa
Szwajhert, Eugene Walter	1	Chicago
Toline, Clarence A	4	Moline
Tourek, George	1	Chicago
Trovillion, Howard W	1	Metropolis
Turek, George	1	Chicago
Turobinsky, Tadeuj	2	Grodzisk, Russia-Poland
Vasumpattur, Arthur J	1	Chicago
Van Pelt, Belford	2	Chicago
Wach, Edward Charles, Ph.G.	1	Rock Island
Ward, Hartzell Harris	1	Chicago
Wendelsdorf, Chester Willis	1	Calfax
Werner, Hugo	1	Chicago
Widmeyer, Lionel John	1	Winona, Minnesota
Willis, Samuel	1	Kolla, North Dakota
Willis, Herbert W	2	Joppa
Wisnow, Helen	1	Joppa
White, Matilda J	1	Rockford
Wong, Benjamin K	2	Beid
Worsley, Raymond E	3	Nanimo, British Columbia
Yeatman, Oscar Bradford	4	Dixon
Young, Frank George	1	Huntsville, Alabama
Zielinski, Joseph B	1	Chicago
		Chicago

## SCHOOL OF PHARMACY

Name	Year	Residence
Ackermann, Albert Gregory	P 1	Chicago
Ahnert, Max Elregott	P 2	Geneseo
Alex, Frank	P sp	Chicago
Anderson, David Rangnald	P 2	Chicago
Antonides, Edward	P 1	Chicago
Bach, Peter Alexander	P 1	Chicago
Balzer, Aelred William	P sp	Quincy
Barcroft, Victor Ambrose	P 1	Litchfield
Barton, Paul Elzevir	P 1	Litchfield
Berarde, James B	P 1	Chicago
Besser, Henry A	P sp	LaGrange
Blanchet, Gustave Miller	P 1	Chicago

Black, Thomas Wendell	P	2	Chicago
Blower, James Arthur	P	1	Clinton, Indiana
Boehm, Frederick Evenson	PC	3	Chicago
Bolen, Hallie Elsworth	P	1	Anna
Brann, William Paul	P	1	Cave-in-Rock
Brown, W Edwin	P	2	Quincy
Buerkle, Henry Adam	P	2	DuQuoin
Bundy, Gerald Gilbert	P	1	Sheldon
Bushby, Glen Christopher	P	sp	Chicago
Byers, Floyd Marion	P	1	Genoa
Byers, Leslie Clare	P	1	Genoa
Caplan, Harry Clements	P	1	Rochester, New York
Carden, John Michael	P	1	Chicago
Carothers, Marietta Lucille	P	2	Ansel, Nebraska
Carson, John	P	sp	Mahomet
Caswell, Rainey Henry	P	1	Ashland
Cate, Rollin L	P	2	Streator
Chapman, Gerald S	P	1	Winslow, Arizona
Cohen, Abraham Edwin	P	1	Chicago
Connolly, Virgil George	P	2	Mt. Pulaski
Cooke, John Benjamin	P	2	Goodland, Indiana
Cortlet, Frank Paul	P	sp	Chicago
Cronin, Henry Dewey	P	sp	Lincoln
Curran, George Edmund	P	1	Belvidere
Davidson, Ralph	P	2	Oak Park
Dedic, Libbey	PC	3	Chicago
Dinnsen, Harry Nicholas	P	sp	Chicago
Drebenstedt, Arthur A	P	sp	Burlington, Iowa
Dulla, Frank Joseph	P	sp	Oak Park
Dunghi, Mario Louis	P	1	Buffalo, New York
Dwyer, Emmet Joseph	P	sp	Chicago
Eisele, Louis D	P	1	New Berlin
Eisenberg, Ira Isadore	P	2	Chicago
Erickson, Eric John	P	2	Chicago
Falkenstein, Howard J	P	1	Astoria
Fay, Leslie Vincent	P	1	Dwight
Felger, Carl Gustave	P	2	Chicago
Feuerbacher, Clarence	P	1	Lincoln
Finch, Oral R	P	1	Chicago
Finnegan, John Lawrence	P	sp	Chicago
Forman, John Joseph	P	sp	Chicago
Froiland, Dina Margaret	P	1	Westby, Wisconsin
Funk, Herbert Emerson	P	sp	Chicago
Garber, Wren Walter	P	1	Fairbury
Ginsburg, Roderick Aldrich	P	1	Chicago
Glynn, Leo Kyron	P	sp	Davenport, Iowa
Goldstein, Hilda	P	1	Chicago
Gordin, Aaron Jesse	P	sp	Chicago
Gossmann, Leo John	P	2	Pana
Gossmann, Paul Charles	P	1	Pana
Graham, Clarence Henry	P	1	Carlinville
Grant, Bley Clifford	P	1	Warden
Grosse, Friedrich William August	P	2	Chicago Heights
Grossman, David Percy	P	1	Chicago
Grover, Freeman	P	1	St. Anthony, Idaho
Guinter, Seward Haise	P	2	Chicago
Hallum, Paul Thomas	P	1	Chickasha, Oklahoma
Hanes, Clyde Daniel	P	sp	Chicago
Hansen, Julia Louise	P	sp	Chicago
Harris, Warren Frank	P	2	Aurora
Haselberger, Charles Frank	P	sp	Chicago
Hauber, Josephine Cecelia	P	2	Chicago
Havens, Charles Milton	P	1	Marengo
Higgins, Edward Charles	P	2	Quincy
Holston, Clarence Edward	P	2	Nashville
Horrigan, James Bowler	P	1	Chicago
Hotz, Leonard William	P	sp	Chicago
Humble, Frederick Carl	P	1	Chicago
Humphre, F. Allan	P	2	Vandalia
Humphreys, Eugene Stanley	P	1	Annapawan
Hurdle, Gwen Franklin	P	1	Mt. Sterling
Jenkins, Hlarlan Leo	P	2	Pontiac
Jensen, Harry Jesse	P	2	Chicago
Johnson, Leonard Ferdinand	P	1	Barron, Wisconsin
Jones, Harold Vernon	PC	3	Cowden
Kachinskas, John	P	1	Chicago
Kanak, Elmer Wilbert	P	sp	Chicago
Karel, Louis	P	2	Chicago
Karsen, Samuel	P	sp	Chicago
Katz, Isadore	P	1	Chicago
Kautenburger, Lambert Joseph	P	sp	Chicago
Kelso, Charles Lyle	P	1	Lewistown
Kennedy, William Joseph	P	1	Freeport
Klimist, Milton Norman	P	1	Detroit, Michigan
Koehler, Walter George	P	2	Kankakee
Koelbel, Gerhardt Elmer	P	1	Chicago



Koelbel, Waldemar Arthur	PC	3	Chicago
Kohne, Raymond Bernard	P	sp	Decatur, Indiana
Komalczyk, Stanley Edward	P	1	Chicago
Krape, Edwin Charles	P	1	Freeport
Kritenbrink, Albert John	P	sp	Chicago
Kuchinski, Isabelle	P	2	Gary, Indiana
Kunkel, Lloyd Newton	P	1	Litchfield
Ladd, Ralph Elliot	P	sp	Rockford
Lawton, Charles Ray	P	sp	Taylorville
Leach, Raymond Albert	P	1	Warren, Ohio
Leander, Alvin Morris	P	1	Macomb
Leonard, Aaron Allyn	P	sp	Chicago
Lesser, Hyman	P	sp	Chicago
Levinson, Leo David	P	1	Chicago
Lightfoot, Baxter Elijah	P	2	Chicago
Lyckberg, Theodore Daniel	P	1	Chicago, IL
McBride, Stanley Edward	P	2	Elgin
McCormac, Joseph Hyde	P	2	Chicago
McGrath, John Oliver	P	1	Toluca
McLaughlin, Elmer William	P	2	Quincy
McNeal, William Glenn	P	1	Barry
Madera, Jaroslav Robert	P	2	Chicago
Maether, Carl	P	sp	Chicago
Mahaffy, J Raymond	P	2	Chicago
Maloney, Harry William	P	1	Livingston, Montana
Mapes, Ralph Clark	P	1	Rising Sun, Indiana
Martin, Lewis Elbert	P	1	Monticello
Martin, Raeburn LeRoy	P	sp	Ashley
Martino, John	P	1	Joliet
Mendelsohn, Philip	P	1	Chicago
Merlak, Francis	P	1	Chicago
Merrill, Payette Oscar	P	2	Des Plaines
Milbrandt, Albert L	P	sp	Elgin
Milles, George	P	1	Chicago
Monroe, Louie	P	1	Greenville
Musick, William McKinley	P	1	Delavan
Novotny, Stanley	P	2	Western Springs
O'Keefe, Robert Emmett	P	1	Chicago
O'Reilly, W Chester	P	1	Rolla, North Dakota
Oliver, Richard Neal	P	2	Chicago
Overaker, Paul Melvin	P	sp	Springfield
Pahl, Hans Charles	P	2	Chicago
Pascual, Ruperto Meneses	P	1	Apalit, Philippine Islands
Pate, Clyde M	P	2	Shelbyville
Pearce, William Stamford	P	1	Waukegan
Petz, Arthur Weinert	P	1	Chicago
Pelck, Frederick Harold	P	1	Rochelle
Petranel, Joseph Louis	P	sp	Kankakee
Philps, Cyril Arnold	P	1	Camp Douglas, Wisconsin
Plumery, Joseph Manuel	P	sp	Oak Park
Plummer, Cleon Kermit	P	1	Chicago
Plummer, Carl Williamson	P	sp	Fennville, Michigan
Plzak, Louis Frank	P	1	Cicero
Profant, Frank James	P	sp	Chicago
Rambo, Leon A	P	2	LaMoille
Reinhard, Harold Alexis	P	sp	Mt. Carmel
Robinson, Wesley J	P	1	Peru
Roche, Gerald Parte	P	1	Delavan
Roeseler, William Theodore	P	1	Chicago
Ruzicka, George Joseph	P	sp	Chicago
Saltiel, Henry Carl	P	1	Chicago
Schaberg, Spencer Sylvester	P	1	Conroy, Ohio
Schmid, Herbert C	P	1	Peoria
Schmidt, Sidney	P	2	Chicago
Schulte, Norma Claire	P	1	Chicago
Searls, Lyle Headle	P	1	Amboy
Seblom, Raymond L	P	1	Chicago
Seibert, Sumner Sigle	P	1	Ashley
Seuring, Edward P	P	sp	Chicago
Shaver, Lyle Colburn	P	1	Rolla, North Dakota
Sickman, Cyrenus	P	2	Mossmouth
Sides, William	P	2	Peoria
Sieburg, Walter F	P	sp	Arlington Heights
Silberman, Isadore	P	1	Chicago
Sims, Russel Porter	P	1	Paris
Skoglund, Herbert	P	1	Chicago
Smith, Franklin	P	1	Evanston
Sorenson, Adolph Waldo	P	1	Rowley, Iowa
Spagna, Ferdinand Adolph	P	1	Chicago
Spinner, Louis Charles	P	1	Hillsboro
Springe, Margaret	P	1	Chicago
Stanczak, Stanley Lucian	P	1	Chicago
Stein, Louis	P	sp	Chicago
Still, Floyd Berton	P	sp	DeKalb
Stoner, Lloyd	P	1	Rock Falls
Storlar, Jo Spiller	P	1	Herrin

Stout, Thomas Orlando	P	1	Auburn
Stulik, Antoinette	P	1	Chicago
Sykora, Edward	P	1	Chicago
Tanner, Clarence H.	P	1	Lewistown
Tate, William Morrison	P	2	Chicago
Taylor, Raymond Clide	P	1	Antioch
Terry, Ralph	P	2	Aurora
Thompson, Charles Samue	P	1	DuQuoin
Thompson, William Rufus	P	1	Chicago
Tuma, Charles Paul	P	1	Berwyn
Vella, Ninetta	P	2	Chicago
Vondracek, Albert F.	P	2	Cicero
Walborn, Madge Orlean	P	1	Chicago
Washington, Charles Henry	P	1	Washington, D. C.
Waxman, Lewis William	P	2	Chicago
Wegner, Albert Stephen	P	1	Chicago
Weiss, Louis Ralston	P	1	Chicago
Whitney, Maxson Hall	P	1	Wenona
Wiertelak, Albert Peter	P	sp	Chicago
Windmueller, Ralph William	P	2	Chicago
Wilson, Charles Rodger	P	2	Carbondale
Winter, Frank Theodore	P	1	Forrest
Woolley, Edwin VanNamee	P	1	Streator
Wong, Ping Wa	P	1	Hong Kong, China
Zimmerman, Henry Earl	P	sp	Tuscola

### EXTRA-MURAL COURSES IN INDUSTRIAL EDUCATION FOR TRAINING OF TEACHERS UNDER THE FEDERAL VOCATIONAL EDUCATION ACT

At the present time the University of Illinois is offering at four local centers—in Chicago, Springfield, Rockford, and Urbana-Champaign—extra-mural courses in industrial education for the training of teachers under the Federal Vocational Education Act, including courses for shop teachers, courses for teachers of "related subjects," and courses for teachers of "general continuation subjects."

#### Abbreviations

G. C. General Continuation Teachers' Course.  
R. S. Related Subjects Teachers' Course.  
S. Shop Teachers' Course.

Rkfd. Rockford.  
U.-C. Urbana, Champaign.  
Chi. Chicago.  
Spfld. Springfield.

Name	Curriculum	Center	Address
Abrams, William	R.S.	Chi.	Chicago
Aiken, George J.	S.	Chi.	Chicago
Alley, W E.	S.	U.-C.	Urbana
Anderman, John	S.	Chi.	Chicago
Anderson, Myrtle J.	G.D.	Spfld.	Springfield
Anderson, Oscar W.	S.	Rkfd.	Rockford
Annis, Arthur A.	R.D., G.D.	Rkfd.	Rockford
Ashley, George E.	G.D.	Chi.	Chicago
Austin, Steven Edson	R.S. and S.	Chi.	Chicago
Babcock, Margaret F.	R.S.	Chi.	Chicago
Bailey, Lillian	G.C.	U.-C.	Champaign
Baker, William R.	S.	Rkfd.	Rockford
Balsley, Marion C.	S., G.C.	Rkfd.	Rockford
Bauman, Edward G.	R.S.	Chi.	Chicago
Beach, Amy	G.D.	U.-C.	Champaign
Beach, Maude	G.C.	Spfld.	Springfield
Bechman, Paul	S.	Chi.	Chicago
Beeby, Ruth A.	G.C.	U.-C.	Urbana
Bell, Cecile	G.C.	U.-C.	Champaign
Bennett, Robert Gidion	S.	Chi.	Chicago
Berlizheimer, Celia	G.C.	Chi.	Chicago
Bevis, Albon	R.S.	U.-C.	Urbana
Bingham, Marie E.	G.C.	Spfld.	Springfield
Bjorge, Thomas	G.C., R.S.	Rkfd.	Rockford
Boltz, F A.	S.	Rkfd.	Rockford
Bott, Margaret	G.C.	U.-C.	Urbana
Brennan, Thomas	S.	Chi.	Chicago
Brinkman, A J.	R.S.	Chi.	Chicago
Broeck, H J.	G.C.	Chi.	Chicago
Brogunier, Robert A.	S.	Rkfd.	Rockford
Burkland, Arthur	S.	Chi.	Chicago
Burrow, Horace	S.	Chi.	Chicago
Byrne, May B.	G.C.	Chi.	Chicago
Cain, Linus	S.	Chi.	Chicago
Calkins, William Baird	G.C.	Chi.	Chicago
Campbell, Cora	G.C.	Spfld.	Springfield
Coleman, William P.	S.	Chi.	Chicago
Cooney, William J.	R.S.	Chi.	Chicago
Coughlin, Hannah E.	G.C.	U.-C.	Champaign
Cramer, Carl C.	G.C., R.S.	Rkfd.	Rockford
Creighton, Catherine	G.C.	Spfld.	Springfield

Crowell, John	G.C.	Chi.	Oak Park
Curran, Hannah M	G.C.	Spjgd.	Springfield
Danielson, Olive I	G.C.	U.-C.	Urbana
Davis, Elizabeth	G.C.	U.-C.	Urbana
Davis, Mary B	R.S.	U.-C.	Urbana
D'Armond, Luther B	G.C.	Chi.	Chicago
De Alarid, L J P	G.C.	Chi.	Chicago
De Pew, Mrs. Daisy	G.C.	Spjgd.	Springfield
Dickerson, Jeanette M	G.C.	Spjgd.	Springfield
Divilbiss, Vernele	G.C.	U.-C.	Urbana
Dodd, Mary Alletta	G.C.	Spjgd.	Springfield
Dohren, Henry R	R.S.	Chi.	Chicago
Dolph, Delia	G.C.	U.-C.	Urbana
Duncan, Robert	S.	Chi.	Chicago
Duke, Carl E	G.C.	Spjgd.	Springfield
Each, Arthur	S.	Chi.	Chicago
Egdorf, H C	S.	Chi.	Chicago
Elsner, Amelia	G.C.	Chi.	Chicago
Embury, George M	S.	Chi.	Chicago
Enright, Katherine	G.C.	Chi.	Chicago
Evans, W A	G.C.	Chi.	Chicago
Fassett, Eunice	G.C.	Chi.	Chicago
Finegan, Hattie L	G.C.	Spjgd.	Springfield
Fiscus, Isabelle	G.C.	Chi.	Chicago
Fisher, Frank J	S.	Chi.	Chicago
Fox, Sylvester	S.	Chi.	Chicago
Frank, Orlin D	G.C.	Chi.	Chicago
French, E S	S.	U.-C.	Urbana
Frey, Max	S.	Chi.	Chicago
Fritchle, Frank B	S.	Chi.	Chicago
Fritsch, E A	G.C.	Chi.	Chicago
Fry, Maude B	G.C.	U.-C.	Urbana
Gard, Helen	G.C.	Spjgd.	Springfield
Garrett, Alfred Wilfred	S.	Chi.	Chicago
Gaughan, Kathryn A	G.C.	Spjgd.	Springfield
Geddes, L H	S.	Rkfd.	Rockford
Goodman, India S	G.C.	U.-C.	Urbana
Goodwin, Nona E	G.C.	Chi.	Chicago
Green, George	S.	Rkfd.	Rockford
Grennan, John	S.	U.-C.	Champaign
Greenwald, W Elmer	S.	Chi.	Chicago
Gunderson, Harry O	S.	Chi.	Chicago
Gustafson, Lillian B	G.C.	Spjgd.	Springfield
Hall, R B	G.C.	U.-C.	Urbana
Hall, Ruth J	G.C.	U.-C.	Urbana
Handcock, Elizabeth E	G.C.	Rkfd.	Rockford
Hansen, Hugo Fred	S.	Chi.	Chicago
Hansen, William Charles	S.	Chi.	Chicago
Hanseiman, W F	S.	Chi.	Chicago
Haupt, Mrs. W H	G.C.	Rkfd.	Rockford
Haupt, W H	G.C.	Rkfd.	Rockford
Hays, Mabel I	G.C.	Spjgd.	Springfield
Hazen, Kate E	G.C.	U.-C.	Urbana
Heinzelman, Arthur G	S.	Chi.	Chicago
Hill, W E	R.S.	Chi.	Chicago
Homola, Charles	S.	Chi.	Chicago
Homola, John	S.	Chi.	Chicago
Howells, Annie E	G.C.	U.-C.	Urbana
Huebert, W Gilbert	S.	Chi.	Chicago
Jacobs, Mrs. Lois H	G.C.	U.-C.	Urbana
Jellison, Horace M	G.C., S.	Rkfd.	Rockford
Johnson, Arthur Benjamin	S.	Chi.	Chicago
Johnson, W A	S.	Chi.	Chicago
Jones, Guy D	S.	Chi.	Chicago
Jones, I J	S.	U.-C.	Champaign
Jorgensen, Sarah G	G.C.	U.-C.	Champaign
Kampschaeter, O L	G.C.	Rkfd.	Rockford
Kavanaugh, M F	G.C.	Spjgd.	Springfield
Kavanaugh, M J	G.C.	Spjgd.	Springfield
Keale, Adolph	S.	Chi.	Chicago
Kelly, John T	S.	Chi.	Chicago
Kennedy, R E	S.	U.-C.	Urbana
Kennedy, J William	S.	Chi.	Chicago
Kepple, Joseph F	R.S.	U.-C.	Champaign
Kerchenfaut, Edith	G.C.	U.-C.	Champaign
King, Anne F	G.C.	Rkfd.	Rockford
Klotzsche, Esther	G.C.	U.-C.	Urbana
Knauss, B J	G.C.	Chi.	Chicago
Koehne, William Herman	S.	Chi.	Chicago
Kotelman, Katharine	G.C.	Chi.	Chicago
Kunza, Helen	G.C.	U.-C.	Champaign
Kuyper, Andrew	S.	Chi.	Chicago
La France, Anthony	G.C.	Spjgd.	Springfield
Lanham, E T	S.	U.-C.	Urbana
La Plante, George J	S.	Chi.	Chicago
Le Pila, Alfred J	S.	Chi.	Chicago

Lockwood, W C	S.	Chi.	Chicago
Long, Annie	G.C.	U.-C.	Urbana
Loser, John Henry	S.	Chi.	Chicago
Lundin, Carl William	S.	Chi.	Chicago
MacLean, Libbie W	G.C.	Spgfd.	Springfield
McCall, Arthur B	G.C.	Spgfd.	Springfield
McCall, Benjamin	S.	Chi.	Chicago
McCarthy, B J	S.	Rkfd.	Rockford
McClelland, Frank C	G.C.	Chi.	Chicago
McClelland, Mary L	G.C.	Chi.	Chicago
McElroy, Frank D	G.C.	Rkfd.	Rockford
Maitland, H C	S.	Rkfd.	Rockford
Maltpress, R C	S.	Rkfd.	Rockford
Mansell, L B	R.S.	Chi.	Chicago
Marshall, Treve	G.C.	Spgfd.	Springfield
Marten, Arthur	S.	Chi.	Chicago
Michel, Henning F	S.	Chi.	Chicago
Modglin, William P	R.S.	Chi.	Chicago
Monday, Thomas P	S.	Chi.	Oak Park
Money, Shirley	G.C.	U.-C.	Urbana
Moon, Mabel	G.C.	Spgfd.	Springfield
Moore, A P	S.	U.-C.	Urbana
Moore, C A	S.	U.-C.	Champaign
Moore, O M	S.	U.-C.	Champaign
Moore, W F	S.	U.-C.	Urbana
Morris, Gladys	G.C.	Chi.	Chicago
Morse, Gertrude	G.C.	Chi.	Chicago
Mott, Laura E	G.C.	Spgfd.	Springfield
Munch, H F	G.C.	Rkfd.	Rockford
Murdoch, David	S.	Chi.	Chicago
Nagel, Elizabeth	G.C.	U.-C.	Urbana
Nashold, William F	S.	Rkfd.	Rockford
Nelson, Margaret M	G.C.	U.-C.	Urbana
O'Brien, Willis J	S.	Chi.	Chicago
O'Donoghue, J J	S.	Chi.	Chicago
Olson, Carl Victor	S.	Chi.	Chicago
Olson, Charles	S.	Rkfd.	Rockford
Overstedt, E	S.	Rkfd.	Rockford
Paine, Amy Leigh	G. C.	Chi.	Chicago
Palicka, Anton	S.	Chi.	Chicago
Penrose, Ray G	R.S.	Chi.	Chicago
Peterson, George R	G.C.	Spgfd.	Springfield
Pettet, Paul W P	S.	Chi.	Chicago
Pfister, William B	S.	Chi.	Chicago
Pierce, Minnie M	G.C.	U.-C.	Urbana
Pihl, Eric	S.	Chi.	Chicago
Pope, W T	S.	U.-C.	Urbana
Radcliffe, Helen K	G.C.	Spgfd.	Springfield
Radebaugh, G H	S.	U.-C.	Urbana
Ready, Urban Levi	S.	Chi.	Chicago
Rebman, Peter G	S.	U.-C.	Urbana
Relk, Cornelius	S.	Chi.	Chicago
Roberts, Irvin L	G.C.	Chi.	Chicago
Robertson, Florence	G.C.	Spgfd.	Springfield
Robeson, C O	R.S.	Rkfd.	Rockford
Roper, Margaret	G.C.	U.-C.	Champaign
Ruppert, H J	S.	Chi.	Chicago
Ryan, Nellie F	G.C.	Chi.	Chicago
Samelius, W H	R.S.	Chi.	Chicago
Sands, Russell Ray	S.	Chi.	Chicago
Sandemeyer, Maxmilian	S.	Chi.	Chicago
Sandstrom, Arthur	S.	Chi.	Chicago
Saunders, Mr.	G.C.	Spgfd.	Springfield
Saunders, Mrs.	G.C.	Spgfd.	Springfield
Schladweiler, Mary F	G.C.	Chi.	Chicago
Schlorit, Margaret	G.C.	Spgfd.	Springfield
Schmeling, Walter A	S.	Rkfd.	Rockford
Schneider, P C	S.	Chi.	Chicago
Schreuder, A N	R.S.	Chi.	Chicago
Schuck, R F	R.S., G.C.	Rkfd.	Rockford
Schwerdt, Frank A	G.C.	Rkfd.	Rockford
Sedgwick, Fred W	S.	Chi.	Chicago
Shirey, James	S.	Chi.	Chicago
Shumway, Robert	G.C., R.S.	Rkfd.	Rockford
Skinner, Rachel L	R.S.	U.-C.	Champaign
Smith, Allen J	G.C.	Spgfd.	Springfield
Smith, H C	S.	Chi.	Chicago
Smith, C Van Vranken	S.	Chi.	Chicago
Soller, John Henry	S.	Chi.	Chicago
Spencer, Cynthia	R.S.	U.-C.	Champaign
Stanberry, Mr.	G.C.	Spgfd.	Springfield
Steffens, John C H	S.	Chi.	Chicago
Stinson, M Edna	R.S.	U.-C.	Champaign
Stivers, C L	G.C.	Spgfd.	Springfield
Stolzenberg, Richard A	S.	Chi.	Chicago
Straka, Adolph Norman		Chi	Chicago

Supple, Winifred	G.C.	<i>Spgfd.</i>	<i>Springfield</i>
Swanson, George	S.	<i>Chi.</i>	<i>Chicago</i>
Teeuwen, Marinne	G. C., R.S.	<i>Rkfd.</i>	<i>Rockford</i>
Thompson, J W	G.C.	<i>Chi.</i>	<i>Chicago</i>
Throgmorton, J Norris	R.S.	<i>Chi.</i>	<i>Chicago</i>
Tompkins, Carrie E	G.C.	<i>Rkfd.</i>	<i>Rockford</i>
Trefz, William	S.	<i>Rkfd.</i>	<i>Rockford</i>
Unnewehr, C A	G.C.	<i>Chi.</i>	<i>Chicago</i>
Vincent, Harriet	G.C.	<i>Chi.</i>	<i>Chicago</i>
Wahlstrom, Gus Manuel	S.	<i>Chi.</i>	<i>Chicago</i>
Ward, Benjamin	S.	<i>Chi.</i>	<i>Chicago</i>
Webber, Pearl	G.C.	<i>U.-C.</i>	<i>Urbana</i>
White, Grace	G.C.	<i>U.-C.</i>	<i>Urbana</i>
Wickham, W W	S.	<i>Rkfd.</i>	<i>Rockford</i>
Wiebler, Harry B	S.	<i>Chi.</i>	<i>Chicago</i>
Wiley, Edward	S.	<i>Chi.</i>	<i>Chicago</i>
Williams, Matthew J	G.C.	<i>Chi.</i>	<i>Chicago</i>
Wilson, A R	R.S.	<i>U.-C.</i>	<i>Champaign</i>
Wilson, George	S.	<i>Chi.</i>	<i>Chicago</i>
Wilson, James	S.	<i>Chi.</i>	<i>Chicago</i>
Wilson, Pearl	G.C.	<i>U.-C.</i>	<i>Urbana</i>
Wolff, Harry Henry	S.	<i>Chi.</i>	<i>Chicago</i>
Wolff, Jack	S.	<i>Chi.</i>	<i>Chicago</i>
Wooden, Ethel	G.C.	<i>Rkfd.</i>	<i>Rockford</i>
Woodworth, H O	S.	<i>U.-C.</i>	<i>Urbana</i>
Wright, Amos D	S.	<i>U.-C.</i>	<i>Urbana</i>
Young, Mrs. Alice	G.C.	<i>U.-C.</i>	<i>Urbana</i>
Zook, S E	G.C.	<i>Rkfd.</i>	<i>Rockford</i>

# DEGREES CONFERRED

1919

Degrees are conferred at four times in the year, as follows: (1) at the end of the first semester, in February; (2) at the end of the second semester, in June; (3) at the end of the Summer Session, in August; (4) in October. Unless otherwise stated, the degrees in the following lists were conferred on June 23, 1919.

## THE UNDERGRADUATE COLLEGES

### Degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Music

ELMER WADE ADAMS, Bachelor of Science (Liberal Arts)  
OPHELIA AHLERS, Bachelor of Arts (Liberal Arts)  
DANIEL ARTHUR ALBRECHT, A.B., Bachelor of Science (Agriculture)  
GRACE ELIZABETH ALEXANDER, Bachelor of Arts (Liberal Arts)  
CECIL VIOLET ALLEN, Bachelor of Arts (Home Economics)  
IKUTARO ANDO, Bachelor of Science (Commerce)<sup>1</sup>  
GRETCHEN FRANKEN ANEY, Bachelor of Arts (Home Economics)<sup>1</sup>  
HAZEL IRENE ARMSTRONG, Bachelor of Music<sup>2</sup>  
DOROTHY VIRGINIA BAHE, Bachelor of Arts (Liberal Arts)  
IONE FREDERICKS BALLINGER, Bachelor of Arts (Home Economics)<sup>3</sup>  
LORENSON BANDY, Bachelor of Science (Mechanical Engineering)  
CLIFTON EUGENE BARNES, Bachelor of Science (Chemical Engineering)<sup>3</sup>  
IRMA MARGARET BARNES, Bachelor of Arts (Home Economics)  
ARTHUR WILLIAM BARILING, Bachelor of Science (Electrical Engineering)  
JOHN THADDEUS BATSON, Bachelor of Science (Science)<sup>2</sup>  
EZRA EDWARD BAUER, Bachelor of Science (Civil Engineering)  
MARGARET SUTTON BAUM, Bachelor of Arts (Liberal Arts)  
HARRY WILLIAM BAUMER, Bachelor of Science (Electrical Engineering)  
WALTER GEORGE BAYSINGER, Bachelor of Science (Agriculture)<sup>3</sup>  
ELSIE BEATTY, Bachelor of Arts (Liberal Arts)  
MARTIN ALBERT BEHRENS, Bachelor of Science (Commerce)  
CECILE MARY BELL, Bachelor of Arts (Liberal Arts)  
STELLA LOUISE BENCH, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
EMIL CLINE BENNETT, Bachelor of Science (Agriculture)  
MARIE BENNETT, Bachelor of Arts (Home Economics)<sup>4</sup>  
EMERY FRANKLIN BERRY, Bachelor of Science (Electrical Engineering)  
ROY ST LAWRENCE BIGELOW, Bachelor of Science (Railway Electrical Engineering)  
JOHN MILTON BIRKS, Bachelor of Science (Agriculture)  
AURELIO BORELLI, Bachelor of Science (Electrical Engineering)  
FRED TRYON BOWDITCH, Bachelor of Science (Electrical Engineering)  
WILLIAM MICHAEL BOWERSOCK, Bachelor of Science (Electrical Engineering)<sup>1</sup>  
MAY FRANCES BRADY, Bachelor of Arts (Liberal Arts)  
GEORGE BRAUN, Bachelor of Science (Architecture)  
HELEN MARIE BRAUNS, Bachelor of Arts (Home Economics)  
LOTHAR HOMER BREDE, Bachelor of Science (Science)<sup>2</sup>  
EDYTHE LORENE BREDWEG, Bachelor of Arts (Liberal Arts)  
ABRAHAM ALBERT BRENSKY, Bachelor of Science (Civil Engineering)  
RUTH EDITH BREVFOGLE, Bachelor of Arts (Liberal Arts)  
THOMAS HUGH BROCK, Bachelor of Science (Agriculture)  
MARTHA MATILDA BROCKMEIER, Bachelor of Arts (Liberal Arts)  
CLARENCE EHNIE BROEKE, Bachelor of Science (Science)<sup>2</sup>  
GRACE VORIS BROWN, Bachelor of Arts (Liberal Arts)  
VICTOR ISRAEL BROWN, Bachelor of Arts (Liberal Arts)  
CHARLES CLINTON BUELL, Jr., Bachelor of Arts (Liberal Arts)<sup>2</sup>  
GERALDINE SALISBURY BULLOCK, Bachelor of Arts (Home Economics)  
HARRIETT YERKES BURNAP, Bachelor of Arts (Liberal Arts)  
GRACE SARAH BURWASH, Bachelor of Arts (Home Economics)  
RUTH MARGARET BURWASH, Bachelor of Arts (Home Economics)  
ALEXANDER TECUMSEH BUSH, Bachelor of Science (Science)<sup>2</sup>  
GOLDIA GRAYCE BUTZER, Bachelor of Arts (Liberal Arts)  
BESSIE BRADSHAW BYERS, Bachelor of Arts (Liberal Arts)  
HARRIET CLARK CADE, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
SARAH RUTH CALDERWOOD, Bachelor of Arts (Home Economics)  
ALICE MAE CARLSON, Bachelor of Arts (Liberal Arts)  
HELEN MARIE CARLSON, Bachelor of Arts (Liberal Arts)  
RICHARD JOHN CARLSON, Bachelor of Science (Architecture)  
WILBUR MAXWELL CARTER, Bachelor of Science (Architecture)  
ARTHUR DAVID CASKEY, Bachelor of Science (Electrical Engineering)  
MARIE ELIZABETH CAVANAUGH, Bachelor of Arts (Liberal Arts)  
ROBERT CESSNA, Bachelor of Science (Agriculture)  
HARRY HENDERSON CHAPMAN, Bachelor of Science (Mechanical Engineering)  
CHAO SHUN CHEN, Bachelor of Science (Agriculture)  
JAMIE MARGARET CHESIER, Bachelor of Arts (Home Economics)

<sup>1</sup> Degree conferred February 1, 1919.

<sup>2</sup> With thesis.

<sup>3</sup> Degree conferred October 6, 1919.

<sup>4</sup> Degree conferred August 16, 1919.

CASIMIR STANLEY CIERPIK, Bachelor of Science (Mechanical Engineering)  
 FRANK ROUNDY CLARK, Bachelor of Science (Chemical Engineering)  
 MARGARET CLARK, Bachelor of Science (Landscape Gardening)  
 ROBERT CHARLES CLARK, A.B., Bachelor of Science (Agriculture)<sup>1</sup>  
 MARGUERITE ARABELLA CLINE, Bachelor of Arts (Home Economics)  
 IRWIN BERNARD CLORFINE, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 WILLIAM HENRY COBB, Bachelor of Science (Commerce)  
 JULIEN HAMPTON COLLINS, Bachelor of Science (Commerce)<sup>2</sup>  
 ALBERT BENJAMIN COMM, Bachelor of Science (Architectural Engineering)  
 EDITH FRANCES CONDON, Bachelor of Arts (Liberal Arts)  
 ASA BRISTOL CONKLIN, Bachelor of Science (Agriculture)  
 JOHN MANCHESTER COOK, Bachelor of Arts (Commerce)  
 RUSSELL STEWART COOKE, Bachelor of Science (Civil Engineering)  
 DELLA GRACE CORDELL, Bachelor of Music<sup>2</sup>  
 JOSEPH CLARENCE CORMACK, Bachelor of Science (Commerce)  
 RALPH WHITE CORNELISEN, Bachelor of Science (Civil Engineering)  
 FRANK HOWE CORNELL, Bachelor of Letters (as of the Class of 1894)  
 GERALD JUDY COX, Bachelor of Science (Chemical Engineering)  
 HELEN ELIZABETH CRAIG, Bachelor of Arts (Liberal Arts)  
 JOHN HENRY CRAIG, Bachelor of Science (Agriculture)<sup>1</sup>  
 ETHEL FRANCES CRATE, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 MARIE LOUISE CRONIN, Bachelor of Arts (Liberal Arts)  
 LEOPOLDO CUNHA, Jr., Bachelor of Science (Railway Civil Engineering)  
 IRENE MARY CUNNINGHAM, Bachelor of Arts (Liberal Arts)  
 ELIZA CURTIS, Bachelor of Arts (Liberal Arts)  
 MIRIAM AUSTIN CURTIS, Bachelor of Arts (Liberal Arts)  
 HELEN DALY, Bachelor of Arts (Liberal Arts)  
 RUTH DANIEL, Bachelor of Music<sup>3</sup>  
 EDITH ISABEL DAVIS, Bachelor of Arts (Home Economics)  
 LAXA EDNA DAVIS, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 WARD OWEN DAVIS, Bachelor of Science (Agriculture)  
 LYMAN KENT DAVIS, Bachelor of Arts (Liberal Arts)  
 EARLE REED DAWLEY, Bachelor of Science (Civil Engineering)  
 ROBERT WORTHINGTON DAWLEY, Bachelor of Science (Chemical Engineering)  
 MYRA LOIS DEHART, Bachelor of Arts (Home Economics)  
 WALTER LEONARD DEINER, Bachelor of Science (Landscape Gardening)  
 MARTHA CATHERINE DEVERE, Bachelor of Arts (Home Economics)  
 CARL JOHN DILLINGER, Bachelor of Science (Civil Engineering)  
 ASTRID MOTH DODGE, Bachelor of Arts (Liberal Arts)  
 WILLIS HARRY DOERSCHER, Bachelor of Science (Commerce)  
 MARY MARGARET DONOVAN, Bachelor of Science (Commerce)  
 MARTHA MATILDA DORSETT, Bachelor of Arts (Liberal Arts)  
 VICTOR PAUL DORY, Bachelor of Science (Commerce)  
 PAUL CHRISTIAN DOSS, Bachelor of Science (Agriculture)<sup>1</sup>  
 CARL PHILIP DOWELL, Bachelor of Science (Electrical Engineering)  
 FLORENCE ELEANOR DOWNEND, Bachelor of Music<sup>3</sup>  
 IRENE MAY DOYLE, Bachelor of Arts (Liberal Arts)  
 MARION CLARA DOYLE, Bachelor of Arts (Home Economics)  
 MOLLIE MOORE DRORISCH, Bachelor of Arts (Liberal Arts)  
 ADDIE MAJELLA DUBOIS, Bachelor of Arts (Liberal Arts)  
 MARTHA HARRIET DUBOIS, Bachelor of Arts (Liberal Arts)  
 JOHN URBAN DUNGAN, Bachelor of Science (Commerce)  
 DOROTHY DUNK, Bachelor of Arts (Liberal Arts)  
 CHARLES SANDERSON DUSTIN, Bachelor of Science (Agriculture)  
 HAROLD RUSKIN DYER, Bachelor of Science (Architecture)  
 NILA WINIFRED EDMUNDSON, Bachelor of Science (Home Economics)  
 LILLIAN ELIZABETH EGAN, Bachelor of Science (Home Economics)<sup>4</sup>  
 WILLIAM FRANCIS EINBECKER, Bachelor of Science (Science)<sup>1</sup>  
 ALVINE MATTHEWS ELLINGTON, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 OLIVE E ELLIS, Bachelor of Arts (Liberal Arts)  
 MABEL EMINGER, Bachelor of Arts (Liberal Arts)  
 EDMUND FRANCISCUS ENGELLAND, Bachelor of Science (Electrical Engineering)  
 ROY ALFRED ERDMAN, Bachelor of Science (Commerce)  
 GLADYS EVERHART, Bachelor of Arts (Home Economics)  
 RUTH ELIZABETH EWAN, Bachelor of Science (Home Economics)  
 VALLIE EDNA FALLON, Bachelor of Arts (Liberal Arts)  
 GEORGE THEODORE FELBECK, Bachelor of Science (Mechanical Engineering)  
 BERTRAM FEUER, Bachelor of Science (Science)<sup>3</sup>  
 MARTHA MARY FINNIGAN, Bachelor of Arts (Liberal Arts)  
 ANTONIA FISCHBACH, Bachelor of Arts (Liberal Arts)  
 MARY LOUISE FISCHER, Bachelor of Science (Home Economics)  
 MARION LUCILLE FITZER, Bachelor of Arts (Liberal Arts)  
 MARGARET MARION FITZPATRICK, Bachelor of Arts (Liberal Arts)  
 NELLE B FLATT, Bachelor of Arts (Liberal Arts)  
 GEORGE SAMUEL FLEISHMAN, Bachelor of Science (Civil Engineering)  
 ROBERT FOGELSON, Bachelor of Science (Chemical Engineering)<sup>1</sup>  
 FRANCES CLEVELAND FOWLER, Bachelor of Arts (Liberal Arts)  
 JOSEPH RICHARD FREY, Bachelor of Science (Commerce)  
 MILDRED FROMMANN, Bachelor of Arts, (Liberal Arts)  
 ROBERT ELLIOTT FULTON, Bachelor of Science (Commerce)<sup>2</sup>  
 WILLIAM JEWETT FULTON, Jr., Bachelor of Science (Science)<sup>3</sup>

<sup>1</sup> Degree conferred October 6, 1919.<sup>2</sup> Degree conferred August 16, 1919.<sup>3</sup> With thesis.<sup>4</sup> Degree conferred February 1, 1919.

EMERY CLOYD FURRER, Bachelor of Science (Civil Engineering)  
 MILDRED FURST, Bachelor of Arts (Liberal Arts)  
 NORINE FURST, Bachelor of Arts (Liberal Arts)  
 HELEN LOUISE GAGE, Bachelor of Arts (Home Economics)  
 LELIA MAUDE GANNAWAY, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 ALFRED EMANUEL GARBER, Bachelor of Science (Agriculture)<sup>1</sup>  
 HORACE BRYAN GARMAN, Bachelor of Arts (Liberal Arts)  
 RAYMONE WALLACE GAUGER, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 PAULINE GAUSS, Bachelor of Arts (Liberal Arts)  
 MARY BERNEICE GEIGER, Bachelor of Arts (Liberal Arts)  
 WALTER JACOB GEIGER, Bachelor of Science (Electrical Engineering)  
 FRANK HERMAN GEILER, Bachelor of Arts (Liberal Arts)  
 EVANGELINE JEANETTE GILLESPIE, Bachelor of Arts (Liberal Arts)  
 PHILIP LAWRENCE GILMORE, Bachelor of Science (Commerce)  
 PAUL MEADE GINNINGS, Bachelor of Science (Science)<sup>2</sup>  
 OWEN ELLYSON GISH, Bachelor of Science (Railway Mechanical Engineering)  
 HERMANN ALFRED GOLDSTEIN, Bachelor of Science (Chemical Engineering)<sup>1</sup>  
 WILBUR IRA GOOCH, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 IDA BEATRICE GOODMAN, Bachelor of Arts (Home Economics)  
 GLADYS MARIE GOODPASTURE, Bachelor of Arts (Liberal Arts)  
 ROBERT JAMES GOODRICH, Bachelor of Science (Science)<sup>2</sup>  
 ARTHUR HUBERT GOTTSCHALK, Bachelor of Arts (Liberal Arts)  
 ROY FRENCH GRAESSER, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 WILLIAM FLORACE GRAINGER, Bachelor of Science (Electrical Engineering)  
 MRS. FLORA THOMSON GREENE, Bachelor of Music<sup>2</sup>  
 JOSEPHINE DOROTHY GREENE, Bachelor of Arts (Liberal Arts)  
 DONALD MALCOLME GREER, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 JOHN MILTON GREGORY, Bachelor of Arts (Liberal Arts)  
 MAUDE MARJORIE GRIFFITH, Bachelor of Arts (Liberal Arts)  
 ALFRED GEORGE GROSCHKE, Bachelor of Science (Agriculture)<sup>1</sup>  
 FERN SHAPLAND GUNKEL, Bachelor of Arts (Home Economics)  
 YADINE ELSIE GUNNING, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 THEODORE ADAM HAISS, Bachelor of Arts (Commerce)<sup>2</sup>  
 JOSEPH LOWE HALL, Bachelor of Science (Chemical Engineering)  
 WALDEN WOOD HANCOCK, Bachelor of Arts (Commerce)  
 EARL JOSEPH HANAFORD, Bachelor of Science (Commerce)  
 WILLIAM GILBERT HANAWALT, Bachelor of Science (Mechanical Engineering)  
 FRED ROBERT HANSCHMANN, Bachelor of Science (Architectural Engineering)  
 ANKER FRED HANSEN, Bachelor of Science (Architecture)  
 BONNIE JEAN HARDESTY, Bachelor of Arts (Home Economics)  
 EDITH LEORA HARKINS, Bachelor of Arts (Liberal Arts)  
 VERNON LESLIE HARNACK, Bachelor of Science (Science)<sup>2</sup>  
 BRAINERD GARRETSON HATCH, Bachelor of Science (Electrical Engineering)  
 HERBERT MARTIN EDWARD HEINICKE, Bachelor of Science (Chemical Engineering)  
 IRENE LUCILLE HELD, Bachelor of Arts (Home Economics)<sup>1</sup>  
 HAROLD BORDEN HEMB, Bachelor of Science (Mechanical Engineering)  
 MARY ABIGAIL HENDERSON, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 CASPAR FERDINAND HENNING, Bachelor of Science (Municipal and Sanitary Engineering)  
 ASA HOPE HIXON, Bachelor of Arts (Liberal Arts)  
 MARY MARGARET HOFFMAN, Bachelor of Arts (Home Economics)<sup>1</sup>  
 RUTH CAROLYN HOLMAN, Bachelor of Arts (Liberal Arts)  
 HAROLD HOOVER HOLTZMAN, Bachelor of Science (Agriculture)  
 ROBERT KEITH HOSKINS, Bachelor of Science (Commerce)<sup>2</sup>  
 ETHEL MARIAN HOTTINGER, Bachelor of Arts (Liberal Arts)  
 JOSEPHINE HOWE, Bachelor of Arts (Liberal Arts)  
 EDWARD TILLSON HOWELL, Bachelor of Science (Chemical Engineering)  
 BROWNLEE MARTIN HUBBLE, Bachelor of Science (Agriculture)<sup>1</sup>  
 GERTRUDE HUMPHREYS, Bachelor of Arts (Home Economics)  
 KATIE LYDIA EDNA HUMRICHOUSE, Bachelor of Science (Commerce)  
 DOROTHY HARRIET HUNT, Bachelor of Science (Home Economics)  
 MILTON TILMON HUNT, Jr., Bachelor of Science (Commerce)  
 ADELLA AILEEN HUNTER, Bachelor of Arts (Liberal Arts)  
 LLOYD HIRAM HUNTER, Bachelor of Science (Commerce)  
 FRANK JOHN HURLEY, Bachelor of Science (Commerce)<sup>4</sup>  
 HARVEY WOOLSEY HYDE, Bachelor of Science (Science)  
 ANNA ELIZABETH JACKSON, Bachelor of Arts (Liberal Arts)  
 GLEN THOMAS JAMISON, Bachelor of Science (Electrical Engineering)  
 LAWRENCE TENNEY JENNER, Bachelor of Arts (Commerce)  
 MARION ELIZABETH JOHNS, Bachelor of Arts (Liberal Arts)  
 MRS. JEAN RIPLEY JOHNSON, Bachelor of Science (Agriculture)  
 JOHN RAVEN JOHNSON, Bachelor of Science (Science)<sup>1</sup>  
 RICHARD HENDERSON JOHNSON, Bachelor of Science (Commerce)<sup>4</sup>  
 WALTER HARRIS JOHNSON, Bachelor of Science (Electrical Engineering)  
 HAROLD BOOMER JOHNSTON, Bachelor of Arts (Liberal Arts)  
 PAULINE JOHNSTON, Bachelor of Arts (Liberal Arts)  
 WILLIAM JOSEPH JONES, Bachelor of Science (Commerce)<sup>4</sup>  
 GLADYS IRENE JOSLYN, Bachelor of Arts (Home Economics)  
 ALVARO JOUNQUERA, Jr., Bachelor of Science (Railway Civil Engineering)  
 HILSIE ELSIE JURGENS, Bachelor of Arts (Liberal Arts)  
 DAVID JAMES KADYK, Bachelor of Arts (Liberal Arts)  
 FREDERICK CASPAR KALTHOFF, Bachelor of Science (Architecture)

<sup>1</sup> Degree conferred October 6, 1919.<sup>2</sup> With thesis.<sup>3</sup> Degree conferred February 1, 1919.<sup>4</sup> Degree conferred August 16, 1919



LAWRENCE RAYMOND KEIFFER, Bachelor of Science (Electrical Engineering)  
 MARGUERITE KENNEDY, Bachelor of Arts (Liberal Arts)  
 MARION KATHERINE KENNY, Bachelor of Science (Home Economics)  
 WILLIAM KING, Bachelor of Arts (Liberal Arts)  
 HARRY LOUIS KIRKPATRICK, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 ALICE HARPER KLINE, Bachelor of Arts (Home Economics)  
 HILDA KOHL, Bachelor of Arts (Liberal Arts)  
 SHUN KOO, Bachelor of Science (Railway Civil Engineering)  
 ORMA THERESA KRAMETBAUER, Bachelor of Arts (Liberal Arts)  
 VICTOR LOUIS KRANNERT, Bachelor of Science (Commerce)  
 PAUL GATES KREIDER, Bachelor of Arts (Liberal Arts)  
 SOLOMON JACK KUPPERMAN, Bachelor of Science (Civil Engineering)  
 MARY ANNETTA KURT, Bachelor of Arts (Home Economics)  
 ELIZABETH ANNE LAMME, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 ROY WILLIAM LANDSTROM, Bachelor of Science (Agriculture)  
 ULYSSES SIMPSON LATTNER, Bachelor of Science (Mechanical Engineering)  
 FANNIE LEE, Bachelor of Arts (Home Economics)  
 JESSIE MIRIAM LEEDLE, Bachelor of Arts (Liberal Arts)  
 TOM LEEMING, Bachelor of Arts (Liberal Arts)  
 JACOB SAM LEIBSON, Bachelor of Science (Ceramic Engineering)  
 JANE MARIE LEICHESENRING, Bachelor of Science (Home Economics)  
 EUNICE PEARLE LEONARD, Bachelor of Music<sup>2</sup>  
 VEDA FERN LEONARD, Bachelor of Arts (Liberal Arts)  
 BEATRICE ESTHER LEVY, Bachelor of Arts (Liberal Arts)  
 WILLIAM HENRY LEWIS, Bachelor of Science (Commerce)  
 PING LIANG, Bachelor of Science (Commerce)  
 EMMANUEL HAROLD LIEBERMANN, Bachelor of Arts (Liberal Arts)  
 SAMUEL LILIENTHAL, Bachelor of Science (Civil Engineering)  
 KATE HOPE LIVINGSTON, Bachelor of Arts (Liberal Arts)  
 SHOU CHENG LU, Bachelor of Arts (Liberal Arts)  
 ARLENE LUMLEY, Bachelor of Arts (Liberal Arts)  
 BRUCE GURLER LUNDBERG, Bachelor of Science (Agriculture)  
 HENRY GURLER LUNDBERG, Bachelor of Science (Agriculture)  
 LILIAN HELEN LYONS, Bachelor of Arts (Liberal Arts)  
 MARIAN MCCONNE, Bachelor of Arts (Home Economics)  
 JOSEPH HUME MCCORMACK, Bachelor of Science (Chemical Engineering)  
 HARRIET EUNICE MCCORMICK, Bachelor of Arts (Liberal Arts)  
 JOSEPH NELSON McDONALD, Bachelor of Arts (Liberal Arts)  
 ELDA MARIE MCKNIGHT, Bachelor of Arts (Home Economics)  
 FANNIE MARIE McMURRAY, Bachelor of Arts (Liberal Arts)  
 CLAYTON ARCHIBALD McNAUGHTON, Bachelor of Science (Commerce)<sup>2</sup>  
 DAVID THORNLEY McNISH, Bachelor of Science (Agriculture)<sup>2</sup>  
 ELIZABETH JULIA MAGERS, Bachelor of Arts (Home Economics)  
 EDNA FRANCES MANN, Bachelor of Arts (Home Economics)  
 ANNA EDITH MARKS, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 DAISY MOORE MARTIN, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 ARTHUR WILLIAM KUHS MARX, Bachelor of Arts (Liberal Arts)  
 HENRY LAURENA MASSEY, Bachelor of Science (Commerce)<sup>1</sup>  
 ESTHER NELSON MATH, Bachelor of Arts (Liberal Arts)  
 WALKER WILSON MEANS, Bachelor of Science (Civil Engineering)  
 VIRGINIA MERRILLS, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 HAROLD IRVING MEYER, Bachelor of Arts (Liberal Arts)  
 MARGUERITE MEYERS, Bachelor of Arts (Liberal Arts)  
 ERROL BATHURST MIDDLETON, Bachelor of Arts (Liberal Arts)  
 ANNA MAY MILLER, Bachelor of Arts (Liberal Arts)  
 CLAIRE EVELYN MILLER, Bachelor of Arts (Home Economics)<sup>1</sup>  
 JOSEPH GILMAN MILLER, Bachelor of Science (Commerce)  
 KENNETH WILLIAM MILLER, Bachelor of Science (Electrical Engineering)  
 VIRGINIA AGNES MILLER, Bachelor of Arts (Liberal Arts)  
 HELEN NELLORA MINER, Bachelor of Science (Liberal Arts)<sup>3</sup>  
 BENJAMIN EUGENE MITTELMAN, Bachelor of Science (Civil Engineering)  
 RACHEL MARGARET MORRIS, Bachelor of Arts (Liberal Arts)  
 LETHE ELEANORA MORRISON, Bachelor of Arts (Home Economics)  
 ARCHIE RUNKLE MOTTER, Bachelor of Arts (Commerce)<sup>1</sup>  
 RICHARD HENRY MUELLER, Bachelor of Science (Agriculture)  
 WALTER JOHN MUMM, Bachelor of Science (Agriculture)<sup>2</sup>  
 LENORE CLAIRE MURRAY, Bachelor of Arts (Liberal Arts)  
 RANDALL TOLMAN MURRILL, Bachelor of Science (Mechanical Engineering)  
 ELEANORE ELIZABETH MUTH, Bachelor of Science (Home Economics)  
 ELLA BURNS MYERS, Bachelor of Arts (Liberal Arts)  
 SURENDRA CHANDRA NAG, Bachelor of Science (Municipal and Sanitary Engineering)  
 CHARLES AUGUST NAGEL, Bachelor of Science (Civil Engineering)  
 AGNES LOUISE NELSON, Bachelor of Arts (Liberal Arts)  
 CARL WESLEY NESBITT, Bachelor of Science (Science)<sup>3</sup>  
 GEORGE NESHEFF, Bachelor of Science (Mechanical Engineering)  
 RUSSELL EDWARD NEWCOMB, Bachelor of Science (Mechanical Engineering)  
 JOSEPHINE NEWELL, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 ETHEL BIRDELLA NILSON, Bachelor of Arts (Liberal Arts)  
 ELSIE MAE NOEL, Bachelor of Arts (Liberal Arts)  
 ALMA MARIE NORTH, Bachelor of Science (Commerce)<sup>1</sup>  
 MIRIAM ELLEN NULL, Bachelor of Arts (Home Economics)  
 GEORGE STRUBLE OBERNE, Bachelor of Science (Mechanical Engineering)

<sup>1</sup> Degree conferred August 16, 1919.<sup>2</sup> Degree conferred October 6, 1919.<sup>3</sup> With thesis.

ETHEL OVERSTREET, Bachelor of Arts (Liberal Arts)  
 GERALD LEWIS PALMER, Bachelor of Arts (Commerce)  
 LOUIS STAHL PAPFMEIER, Bachelor of Science (Civil Engineering)  
 MARTHA ANN PARK, Bachelor of Arts (Home Economics)  
 FREDERICK WILLIAM PATTON, Bachelor of Science (Agriculture)  
 BENJAMIN FRANKLIN PEADRO, Bachelor of Letters (as of the Class of 1881)  
 NELLE MARIE PENDERGAST, Bachelor of Music<sup>1</sup>  
 MABEL ELIZABETH PETERSON, Bachelor of Arts (Liberal Arts)  
 HARRIET MURIEL PHILLIPS, Bachelor of Science (Agriculture)  
 WILLIAM LORING PHILLIPS, Bachelor of Science (Civil Engineering)  
 CHARLES HOWARD PIERSON, Bachelor of Science (Civil Engineering)  
 RUY PINHEIRO, Bachelor of Science (Railway Civil Engineering)<sup>2</sup>  
 WALTER GUSTAVE POEHLMANN, Bachelor of Science (Agriculture)  
 ANNA POLKOWSKI, Bachelor of Arts (Liberal Arts)  
 FRANK EDWARDS POULSEN, Bachelor of Arts (Liberal Arts)  
 BEULAH WISE PRANTE, Bachelor of Arts (Liberal Arts)  
 MARION ERENAY PRICE, Bachelor of Arts (Home Economics)<sup>2</sup>  
 BETTY MARIE PULSIPHER, Bachelor of Science (Home Economics)  
 MARY HEISKELL PUTNAM, Bachelor of Arts (Home Economics)  
 EMMA MARION PUTNEY, Bachelor of Arts (Home Economics)  
 LEWIS WASHINGTON RAGLAND, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 HAZEL VIOLA REED, Bachelor of Arts (Home Economics)  
 RAYMOND LESLIE REESE, Bachelor of Science (Agriculture)  
 STELLA GEORGIA REESS, Bachelor of Arts (Home Economics)  
 WALTER BROWN REMLEY, Bachelor of Science (Agriculture)<sup>2</sup>  
 GOLDA MAY RHODES, Bachelor of Arts (Home Economics)  
 OPAL TERRISSA RHODES, Bachelor of Arts (Home Economics)  
 LENA CECILIA RHUE, Bachelor of Science (Commerce)  
 BERTA ESTELLA RICHART, Bachelor of Arts (Home Economics)<sup>4</sup>  
 HAZEL NAVELLA RINGEISON, Bachelor of Arts (Liberal Arts)  
 LOIS MADELINE ROBERTS, Bachelor of Arts (Liberal Arts)  
 MYRA JANE ROBINSON, Bachelor of Arts (Liberal Arts)  
 ELSIE GWENDOLYNE ROHRBOUGH, Bachelor of Arts (Liberal Arts)  
 CRANDALL ZACHARIAH ROSECRANS, Bachelor of Science (Mechanical Engineering)  
 CHARLES CLIFTON RUSSELL, Bachelor of Science (Agriculture)  
 ELIZABETH JANE RUTHERFORD, Bachelor of Arts (Liberal Arts)  
 WALTER RICHARD RYAN, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 GEORGE EDWARD SALLADIN, Jr., Bachelor of Arts (Commerce)  
 ARTHUR KINGSTON SANDERSON, Bachelor of Science (Mechanical Engineering)  
 HELEN CHARLOTTE SATTERFIELD, Bachelor of Arts (Liberal Arts)  
 CHESTER JEROME SCANLAN, Bachelor of Science (Mechanical Engineering)  
 ABBY CONWAY SCHAEFER, Bachelor of Arts (Home Economics)  
 EUGENE WASHBURN SCHILLING, Bachelor of Science (Electrical Engineering)  
 HENRY VALENTINE SCHLACKS, Bachelor of Science (Electrical Engineering)  
 HAROLD JULIAN SCHLOSS, Bachelor of Science (Agriculture)  
 CHAUNCEY BROCKWAY SCHMELTZER, Bachelor of Science (Civil Engineering)  
 DELMONT JOSEPH SCHNEIDER, Bachelor of Science (Municipal and Sanitary Engineering)<sup>2</sup>  
 NORA WILHELMINE SCHNEIDER, Bachelor of Arts (Liberal Arts)  
 RALPH FRED SCHNEIDER, Bachelor of Science (Science)<sup>3</sup>  
 WILLIAM HENRY SCHNEIDER, Bachelor of Science (Science)<sup>2</sup>  
 JEANETTE SCHOEN, Bachelor of Science (Agriculture)  
 MORRIS SCHRERO, Bachelor of Science (Chemical Engineering)  
 ROBERT LEE SCHUESSLER, Bachelor of Science (Commerce)<sup>2</sup>  
 ESTHER SELB SCOTT, Bachelor of Arts (Liberal Arts)  
 GLADYS RUSSELL SCOTT, Bachelor of Arts (Home Economics)  
 LOIS MARIE SCOTT, Bachelor of Arts (Liberal Arts)  
 JOHN ALLEN SCOVILLE, Bachelor of Science (Civil Engineering)<sup>4</sup>  
 JOHN BARTLETT SEGUR, Bachelor of Science (Science)<sup>2</sup>  
 LOIS FERNE SEYSTER, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 SUSAN KURZENKNABE SHAFFER, Bachelor of Arts (Liberal Arts)  
 WILHELMINE SHAFFER, Bachelor of Arts (Liberal Arts)  
 BENJAMIN EDWARD SHAPIRO, Bachelor of Arts (Liberal Arts)  
 MARY LOUISE SHAW, Bachelor of Arts (Home Economics)<sup>2</sup>  
 MERCY NADINE SHAWAN, Bachelor of Arts (Home Economics)<sup>2</sup>  
 CAROLINE ELIZABETH SHERMAN, Bachelor of Arts (Home Economics)  
 NAOMI SHRADER, Bachelor of Science (Agriculture)  
 FREDERICK WESTON SHUMWAY, Bachelor of Science (Commerce)<sup>2</sup>  
 EBBA BEATRICE SIGFRIDSON, Bachelor of Science (Home Economics)  
 JOSEPH SIMONS, Bachelor of Science (Chemical Engineering)  
 IRENE ELIZABETH SIMPSON, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 BERTRAM EUGENE SKINNER, Bachelor of Science (Agriculture)<sup>2</sup>  
 DEENA AGNES SLOAN, Bachelor of Arts (Home Economics)  
 MADELENE REBINA SLOAN, Bachelor of Science (Home Economics)  
 ANNE ELIZABETH SMITH, Bachelor of Science (Agriculture)<sup>2</sup>  
 ELIZABETH BELLE SMITH, Bachelor of Arts (Liberal Arts)  
 RALPH LINDON SMITH, Bachelor of Science (Agriculture)  
 RUSSELL IVAN SOMERS, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 ZDENKA SPATNY, Bachelor of Arts (Liberal Arts)  
 PHILIPPA BENA SPECK, Bachelor of Arts (Liberal Arts)  
 BLANDE BEEBE SPENCER, Bachelor of Arts (Liberal Arts)<sup>2</sup>

<sup>1</sup> Degree conferred August 16, 1919.<sup>2</sup> Degree conferred February 1, 1919.<sup>3</sup> Degree conferred October 6, 1919.<sup>4</sup> With thesis.<sup>5</sup> Degree conferred January 8, 1919.

LUNA LENORE SPRAWLS, Bachelor of Arts (Liberal Arts)  
 WILLIAM ERNEST STEINWEDEL, Bachelor of Science (as of the Class of 1893)  
 HAZEL MARGARET STEPHENS, Bachelor of Science (Home Economics)  
 BEULAH LOUISE STEWART, Bachelor of Arts (Liberal Arts)  
 RUBEN STOCKENBERG, Bachelor of Science (Mechanical Engineering)  
 LAURA LOUISE STOLL, Bachelor of Arts (Liberal Arts)  
 WILLIAM SAMUEL STONE, Bachelor of Arts (Liberal Arts)  
 WALTER HENRY STORER, Bachelor of Arts (Liberal Arts)  
 MABEL FERN STORM, Bachelor of Arts (Liberal Arts)  
 FELIX LEWIS STREED, Bachelor of Science (Municipal and Sanitary Engineering)  
 EDNA FRANCES SULLIVAN, Bachelor of Arts (Home Economics)  
 MILDRED MEYERS SWEENEY, Bachelor of Arts (Liberal Arts)<sup>1</sup>  
 JAMES TALBOTT, Bachelor of Science (Agriculture)  
 GLENWOOD CHARLES TANTON, Bachelor of Science (Agriculture)<sup>1</sup>  
 ROBIN JAMES TARBOX, Bachelor of Science (Agriculture)  
 KATHLEEN TAYLOR, Bachelor of Arts (Home Economics)  
 MARGERY LEEDS TAYLOR, Bachelor of Science (Agriculture)  
 MAX ALVA TAYLOR, Bachelor of Arts (Liberal Arts)  
 ROY H TAYLOR, Bachelor of Science (Agriculture)  
 ADOLPH FRIEDERICK THAL, Bachelor of Science (Science)<sup>2</sup>  
 ERNEST WILLIAM THILLE, Bachelor of Science (Chemical Engineering)  
 NELSON RENO THOMAS, Bachelor of Science (Commerce)  
 ROYLE PRICE THOMAS, Bachelor of Science (Agriculture)  
 WILLIAM LEWIS VORIS THOMPSON, Bachelor of Science (Agriculture)  
 DEEDIE TIFFANY, Bachelor of Science (Home Economics)  
 JESSIE MAY TOLAND, A.B., Bachelor of Science (Home Economics)  
 TOWNE TONG, Bachelor of Science (Commerce)  
 MAMIE ANETTE TORGERSO, Bachelor of Arts (Liberal Arts)  
 MAO-TE TSAO, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 WAYNE ISAAC TURNER, Bachelor of Science (Agriculture)  
 ANGIE RUTH TWITCHELL, Bachelor of Arts (Liberal Arts)  
 PEARL KATHRYN UTHOFF, Bachelor of Arts (Liberal Arts)  
 ARTHUR MERETT VANDERPOOL, Bachelor of Science (Mechanical Engineering)  
 PERCIVAL CHRIST VAN NEST, Bachelor of Science (Electrical Engineering)  
 HELEN GERTRUDE VIAL, Bachelor of Arts (Home Economics)  
 ALFONSO OCHOA VIZCAINO, Bachelor of Science (Architecture)  
 WESLEY CEPHART WAGNER, Bachelor of Science (Agriculture)  
 MARGARET WALKER, Bachelor of Arts (Liberal Arts)  
 FRED WALTER, Bachelor of Science (Agriculture)  
 ELIZABETH CATHERINE WANDERER, Bachelor of Arts (Liberal Arts)  
 CORNELIA SARA WARMOLTS, Bachelor of Arts (Home Economics)  
 DOROTHY WARREN, Bachelor of Arts (Home Economics)  
 CONSTANCE WATSON, Bachelor of Arts (Liberal Arts)  
 LEONORA HOWARD WATTS, Bachelor of Arts (Liberal Arts)<sup>3</sup>  
 NICHOLAS GEORGE WEISE, Bachelor of Science (Agriculture)  
 ESTELL MARION WELLS, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 VERNON ARTHUR WENKE, Bachelor of Science (Commerce)<sup>3</sup>  
 WILLIAM JOSEPH WERSTLER, Bachelor of Science (Agriculture)  
 MARIE WESSELS, Bachelor of Arts (Liberal Arts)<sup>2</sup>  
 EDWIN ANSIL WHALIN, Bachelor of Science (Agriculture)  
 WAYNE THOMPSON WHARTON, Bachelor of Science (Commerce)  
 BEULAH MAE WHITMAN, Bachelor of Arts (Home Economics)  
 FLORENCE LUCILLE WHITTUM, Bachelor of Arts (Home Economics)  
 HAROLD COURTNEY WILBER, Bachelor of Arts (Commerce)  
 LUCILLE VIVIAN WILKEY, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 BEULAH NAOMI WILLIAMS, Bachelor of Arts (Liberal Arts)  
 JOHN B WILLIAMS, Bachelor of Science (Commerce)<sup>3</sup>  
 HARLAN ARETUS WILLIAMSON, Bachelor of Science (Commerce)<sup>4</sup>  
 WILLIAM PETERSON WILSON, Bachelor of Arts (Liberal Arts)<sup>4</sup>  
 FRANCES LOUISE WITHROW, Bachelor of Arts, (Liberal Arts)  
 CHARLES CLIFFORD WOOD, Bachelor of Science (Civil Engineering)  
 HELEN LOUISE WOOD, Bachelor of Arts (Liberal Arts)  
 GRACE BLACKLEDGE WOODS, Bachelor of Arts (Liberal Arts)  
 NELLIE YOUNG, Bachelor of Arts (Liberal Arts)  
 ALTA MIRIAM YOUNGBLOOD, Bachelor of Arts (Home Economics)  
 EDNA LILA ZELHOFER, Bachelor of Arts (Liberal Arts)

## THE LIBRARY SCHOOL

### The Degree of Bachelor of Library Science

DOROTHY ELIZABETH COOK, A.B. (*Denver University*)  
 1914  
 JOSEPHINE AMANDA CUSHMAN, Ph.B. (*Municipal University of Akron*) 1917  
 MARIE ADALINE HEDRICK<sup>1</sup>  
 BESS JOHNSTON, A.B. (*Baker University*) 1914

BESS LOWRY, A.B., 1917  
 ELEANOR FRANCES WARNER, A.M. (*Ohio Wesleyan University*) 1913  
 IMOGENE WINTERMUTE, A.B. (*Ohio Wesleyan University*) 1911

<sup>1</sup> Degree conferred February 1, 1919.

<sup>2</sup> With thesis.

<sup>3</sup> Degree conferred August 16, 1919.

<sup>4</sup> Degree conferred October 6, 1919.

## THE COLLEGE OF MEDICINE

## The Degree of Bachelor of Science

(Conferred in Chicago)

LEWIS ALBERT ALENSSEN  
 PHILIP L. ARIES  
 DAVID MITCHELL BLUM  
 ARTHUR REUBEN BOGUE  
 JULIUS BRAMS  
 PAUL JONES BRONSON  
 ERNEST JULIUS BROSIUS, D.D.S.  
 WILLIAM HARCOURT BROWNE  
 RICHARD CLARE BURKETT  
 FRANK LELAND CHENOWETH  
 JOHN SPURGEON COLEMAN  
 NEAL DOW CRAWFORD  
 ERNEST NAPOLEON D'ALCORN  
 HOWARD OLNEY DENNIS  
 EDWARD VINCENT DONOVAN  
 RANKLIN RANSOM FITCH  
 RAY HENRY FREARK  
 JOHN FISHER GAINER  
 HARRY GORDON  
 RAY ELLSWORTH GREENWOOD  
 WALTER J. R. HEINEKAMP  
 RALPH WESLEY HOFFMAN  
 HARRISON BONWELL JEWELL  
 RALPH AUGUST KORDENAT  
 ADOLPH KRAFT  
 GEORGE BUCHANAN KRYDER  
 ETHEL ESTHER LITTLE  
 HAROLD BARKER LOUGHERY  
 HAROLD JACKSON MCCOY  
 DON CLAYTON MERRILL  
 JOSEPH EDGAR MITCHELL  
 RUDOLPH J. MROZ

CARL LEONARD MULFINGER  
 SAMUEL NARODITSKY<sup>1</sup>  
 ARNOLD CARL NICKELS  
 HERALD BERNARD NORVIEL<sup>1</sup>  
 JAMES WILLIAM PARKER, JR.  
 PETER EBERHART PETERSON  
 ROGER EDMOND PINKERTON, A.B.  
 SAMUEL GLENN PLICE  
 CASIMIR PRZYPSZNY  
 THOMAS THAYER RACKLIFFE  
 OSCAR RAGINSKY  
 FREDERICK AUGUST RETTIG  
 RANK RICHMOND  
 MAURICE JOSEPH ROSENBERG  
 JULIUS ROZINSKY  
 IRWIN RUBIN  
 ARMOND J. RUPPENTHAL<sup>1</sup>  
 PAUL WHITE RUSH  
 CLARENCE CHARLES SAEHLIOF  
 IRVING JOSEPH SHAPIRO  
 RAYMOND SHRYOCK SHURTLEFF  
 MARY GERTRUDE SLAGHTER  
 IRVIN GABRIEL SPIESMAN  
 FRED RUSH THOMPSON  
 ALFRED STANLEY TRAISMAN  
 THEODORE ROSS VANPELT  
 LAMBERTUS WARMOLTS  
 HOMER SAMUEL WARREN, JR.  
 PETER JOSEPH WERNER  
 CLARENCE LEON WILSON  
 FRANK MAX WITTELLE<sup>1</sup>

## The Degree of Doctor of Medicine

(Conferred in Chicago)

CLIFFORD OAKLEY ARMSTRONG, B.S.<sup>2</sup>  
 DAVID SOLOMON BEILIN, B.S.<sup>2</sup>  
 HOWARD STORM BROWNE, A.B., Ph.C., M.S.<sup>2</sup>  
 WALTER JOSEPH CONNELL, B.S.<sup>2</sup>  
 WINIFRED P. DANA, B.S.<sup>2</sup>  
 MAURICE DOREWITZ<sup>2</sup>  
 ROBERT E. DYER, B.S.<sup>2</sup>  
 IDA EBY, A.B.  
 EDWIN ROY EISLER, B.S.<sup>2</sup>  
 MAX ELEAZER FISCH, B.S.<sup>2</sup>  
 NELSEN KELLIHER FORSTER, A.M.  
 NATHAN HENRY FOX, B.S.<sup>2</sup>  
 JOHN HOWDEN FRASER, B.S., M.S.<sup>2</sup>  
 WAYNE BERNARD CRANGER, A.B., B.S.<sup>2</sup>  
 LOUIS PETER GROOS, B.S.<sup>2</sup>  
 ARNOLD PHILIP GRUENHAGEN, B.S.<sup>2</sup>  
 HARLOW JAMES HANSON, B.S.<sup>2</sup>  
 PAUL MILTON HARDINGER, B.S.<sup>2</sup>  
 ARTHUR J. HENDERSON, A.B., B.S.<sup>1</sup>  
 JOHN WILLIAM HILBERT, B.S.<sup>2</sup>  
 HAROLD AARON KAZMANN<sup>2</sup>  
 SYLVESTER CARL KEHL<sup>2</sup>  
 EVERETT CLYDE KELLY, B.S.<sup>2</sup>  
 HERMAN BENZINN KIPNIS, B.S.<sup>2</sup>

SAMUEL AZOR LEVINSON, B.S.<sup>2</sup>  
 WALKER ELLSWORTH MCCORKLE, Ph.B., M.S.<sup>1</sup>  
 CHARLES ROBERT MCCORRY<sup>2</sup>  
 RAYMOND ADAM MCDERMOTT, B.S.<sup>2</sup>  
 HUGH STANLEY MCGUINNESS, B.S.<sup>2</sup>  
 WILLIAM ALEXANDER MALCOLM, B.S.<sup>2</sup>  
 MORRIS MARCUS, B.S.<sup>2</sup>  
 OSWELL MORIN, B.S.  
 GERTRUDE EVELYN MOULTON, A.B., B.S.  
 ROBERT ROWLAINE MUSTELL, B.S.<sup>2</sup>  
 REGINO J. NAVARRO  
 JOE OLIVER PETERSON, B.S.<sup>2</sup>  
 DUANE WILLARD PROBST, A.B., B.S.<sup>2</sup>  
 WILLIAM TURNER ROGERS, B.S.<sup>2</sup>  
 HARRY LOUIS ROSENBERG, B.S.<sup>2</sup>  
 HUBBARD PRATHER SAUNDERS, A.B.<sup>2</sup>  
 JOSEPH ANDREW SCHACHTER, B.S.<sup>2</sup>  
 ELMER JACOB SCHMIDT, B.S.<sup>2</sup>  
 PAUL L. SCHROEDER, B.S.<sup>2</sup>  
 GRANT WOOD SILL, A.B.  
 EDWARD PERRY VAUGHN  
 METODI VELITCHKOFF, B.S.  
 CLARENCE LEONARD WHITMIRE, B.S.<sup>2</sup>  
 EARL WILLBRE WILLIAMSON, B.S.

<sup>1</sup>Degree conferred January 8, 1919.<sup>2</sup>Degree conferred February 1, 1919.<sup>3</sup>Degree conferred October 6, 1919.

## THE COLLEGE OF DENTISTRY

## The Degree of Doctor of Dental Surgery

(Conferred in Chicago)

ODELL THOMAS ARNESON  
 WILLIAM ARTHUR BACHER  
 MARION ELLSWORTH BELLWOS  
 REGINALD BLADEN BEST<sup>1</sup>  
 ARTHUR ERNEST BLATT  
 MAX WOLF BLOOM  
 BERNARD TOBIAS BLUESTEIN  
 JACOB ALEX BRODSKY  
 STANLEY OWEN BROOKS  
 EARL FREDERICK BUSH  
 GEORGE ALEXANDER CAMPBELL  
 LOWELL JAMESON CARTER<sup>1</sup>  
 LAURA KEESEE CHAMBERS  
 OWEN ROBERT CHASE  
 FRANCIS LEO CONDREN  
 HARRY WELLINGTON COOK  
 FORREST AI DANN<sup>1</sup>  
 SEPTIMIO RICHARD DICOSOLA  
 FREDERICK CHRISTIAN DIPPET  
 THOMAS LEROY DOYLE  
 HARRISON REED DUKE<sup>1</sup>  
 CECIL WALDEMAR FORSLUND<sup>1</sup>  
 MAURICE FORWALTER  
 CHESTER JULIUS GEDULDIG  
 MAURICE GOLDMAN<sup>1</sup>  
 ELSIE MAUDE GORMAN  
 ALBERT EDWARD HALBMAIER  
 PAUL GEORGE HALMHUBER  
 SLAVIE OLIVER HAMACHEK  
 LOUIS HANDLER  
 PANAGIOTIS ANDREW HARRIS  
 LEON F A HEIN  
 MARTIN SELMAR HENDERSON, Ph.G.  
 RICHARD JOHN HUSEBY  
 JOSEPH JOHN KANE  
 ABE J KASTEL

JOHN LOUIE LACE  
 CLARENCE ADELBERT LANDGREN  
 SAMUEL MORDECAI LAPP  
 ALBERT LEHMAN  
 MAURICE AARON LIPPITZ  
 CHIFFORD CARLTON LOOMIS  
 DONAL NYE MCCUGIN  
 LEE MALCOLM MCKEAGUE  
 FELIX MCDOWELL VIANNEY MAILLARD  
 RAOUL JOSEPH MARCHAND  
 KRIKAR MARGOSIAN, A.B.  
 GINSLIN BOSWORTH RAYMOND MARSILY  
 WILLIAM GEORGE METCALF  
 WILLIAM VANCE MIDDLETON  
 JOSE FRANCISCO NAVA  
 MARY NEWELL  
 JOHN FRANCIS O'CONNOR  
 ROBERT KRIDER ORT  
 JOSEPH EDWARD PLEVO  
 LEON REGINALD PLOCHE  
 RUSSELL TROUPE PRETLOW  
 MARJORIE MARY REILAND  
 CLARENCE J ROBBINS  
 HARRY LOUIS RUBEN  
 JAROSLAV RUND  
 HELEN SALNEK, D.D.S.<sup>1</sup>  
 KENNETH PETER SHALEK  
 BARNEY HORRELL SIMON  
 EUGENE AVON SPAFFORD  
 LESLIE OSBORN SPILLANE  
 ROBERT CAMMIE STIERNEBERG  
 EMIL MIROSLAV VITA  
 ERSKINE WILLIAM WEBB  
 HUBERT WEIDNER  
 HARTOLD TREVOR WEST

## THE SCHOOL OF PHARMACY

## The Degree of Pharmaceutical Chemist

(Conferred in Chicago)

BENJAMIN W ALSTEADT, Ph.G.  
 LEWIS PAUL BROCKHOFF

KARL WILLIAM FRASE, Ph.G.  
 ARNO WILLIAM FRITSCHEL

## The Degree of Graduate in Pharmacy

(Conferred in Chicago)

HAROLD GLEN BAIRD  
 HOWARD WELLS BANGERT  
 LEONARD RALPH GREE (Class of 1917)  
 J BERNARD HUMMA  
 ALAN WALLACE JACKS (Class of 1916)  
 PAUL ELLSWORTH JOHNSON

WALDEMAR ARTHUR KOELBEL (Class of 1918)  
 ANDREW WAYNE KUNKEL  
 JULIUS C LAEGELER  
 BEN MASTROFSKY  
 ALBERT LOUIS PARK  
 MAURICE]BRADFORD SKELTON

## THE GRADUATE SCHOOL

## The Degree of Master of Arts

*In Chemistry*

WILLIAM LIONEL MCCLURE, A.B. (*Drury College*) 1916

*In Classics*

JAMES CURTISS AUSTIN, A.B. (*Syracuse University*) 1916  
 MARGARET ALICE FINLEY, A.B., 1918  
 HELEN SIDNEY STEED, A.B. (*Illinois College*) 1918<sup>2</sup>

*In Education*

JOHN ALVA ALEXANDER, A.B. (*Indiana State Normal*) 1916<sup>2</sup>  
 VELDA CHRISTENA BAMESBERGER, A.B., 1918  
 ROY WILLIAMS FEIK, B.S., (*North Western College*) 1913<sup>3</sup>  
 HAZEL MAY HARWOOD, A.B. (*Vassar College*) 1908  
 SUE HUTCHISON, A.B. (*University of Missouri*) 1911  
 LEWIS WASHINGTON RAGLAND, A.B., 1919<sup>1</sup>  
 PERLEY MELVIN WATSON, A.B., 1914

<sup>1</sup> Degree conferred October 6, 1919.<sup>2</sup> Degree conferred August 16, 1919.<sup>3</sup> Degree conferred January 8, 1919.

*In English*

- MARION JEWETT AUSTIN, A.B. (*Illinois Wesleyan University*) 1918  
 LILLIAN BERTHA BEAN, A.B., 1917  
 FLORA EMILY HOTTES, A.B., 1918  
 CATHERINE NEEDHAM, A.B., 1918  
 LOREL ATTA PRUITT, A.B. (*Franklin College*) 1918

*In German*

- ADOLPH MARTIN BENSON, A.B. (*Augustana College*) 1916  
 VEDA MAE VOSE, A.B. (*Eureka College*) 1917

*In History*

- NELLIE CATHERINE ARMSTRONG, A.B. (*Knox College*) 1918

*In Mathematics*

- LOIS VIRGINIA DANIELS, A.B. (*Illinois College*) 1918  
 WILLIAM EDMUND EDINGTON, A.B. (*Indiana State Normal School*) 1909  
 JOSEPH BERNHARDT ROSENBAUGH, A.B. (*University of Colorado*) 1917<sup>1</sup>  
 MARCENA ESTLE RUSSELL, A.B. (*Rockford College*) 1918

*In Physics*

- MARGARET KATE DAWSON, A.B. (*Cornell College*) 1917  
 BERYL FRANKLIN LOVE, A.B., 1918

*In Romance Languages*

- LOIS MERRILL AUSTIN, A.B. (*Illinois Wesleyan University*) 1918  
 MARGARET MARY CLOYD, A.B. (*James Millikin University*) 1918  
 BEATRICE EARLE DEAN, A.B., 1914  
 MARY ENNELINE MCCLELLAN, (*Monmouth College*) 1918  
 ELVA LUCILE PARKINSON, A.B. (*Eureka College*) 1918  
 CORDELIA REED, A.B. (*Hamilton College*) 1918<sup>1</sup>

*In Zoology*

- HARRY LEE ANDREWS, A.B. (*Illinois State Normal School*) 1916<sup>2</sup>  
 EZRA CLARENCE HARRAH, A.B. (*Southwestern College*) 1913  
 ARSHAG KILLIJIAN SEUERIAN, A.B. (*Ripon College*) 1918

## The Degree of Master of Science

*In Agronomy*

- ARTHUR MAXWELL BRUNSON, B.S., 1913

*In Animal Husbandry*

- HAROLD CLAYTON M CASE, B.S., 1912  
 JUNG TING CHEN, B.S., 1918  
 EDWARD KNIGHT HALL, B.S., 1918<sup>2</sup>  
 RAY IRIS SHAWL, B.S., 1916  
 ROY HAROLD WILCOX, B.S. (*University of Minnesota*) 1915

*In Chemistry*

- GERALD CLIFFORD BAKER, A.B., 1917  
 ETHELRED ERASMUS ADOLPHUS CAMPBELL, A.B., 1918<sup>2</sup>  
 GEORGE HOPKINS COLEMAN, B.S. (*Greenville College*) 1915  
 WENDELL HORACE GRIFFITH, B.S. (*Greenville College*) 1917<sup>1</sup>  
 EDWARD ARTHUR JEUDE, B.S., 1918<sup>2</sup>

*In Electrical Engineering*

- RAY STUART QUICK, B.S. (*University of California*) 1916

*In Entomology*

- JAY HOWARD GAGE, A.B., 1916

*In Home Economics*

- MARGARET JOSEPHINE PIRES, B.S. (*Illinois Woman's College*) 1918  
 ETHEL CLAFLIN YUNCKER, B.S. (*Michigan Agricultural College*) 1915

*In Mechanical Engineering*

- FRANK GUSTAVE WAHLEN, B.S. (*Tufts College*) 1917

*In Medicine*

- MAX ELEAZER FISCH, B.S., 1917<sup>1</sup>  
 SAMUEL AZOR LEVINSON, B.S., 1917<sup>1</sup>  
 JOSEPH ANDREW SHACHTER, B.S., 1917<sup>1</sup>

*In Theoretical and Applied Mechanics*

- WILLIAM JAMES PUTNAM, B.S., 1910

## Professional Degree in Engineering

*The Degree of Civil Engineer*

- HARRY ANTHONY WIERSEMA, B.S., 1913

*The Degree of Electrical Engineer*

- LOUIS JAMES BUTZOW, B.S., 1906  
 JOHN THOMAS DONAHOE, B.S., 1914  
 DONALD ALISON HENRY, B.S., 1909

*The Degree of Mechanical Engineer*

- ARTHUR LESLIE MYERS, B.S., 1913

<sup>1</sup> Degree conferred August 16, 1919

<sup>2</sup> Degree conferred October 6, 1919.

The Degree of Doctor of Philosophy

*In Agronomy*

WILLIAM ALBERT ALBRECHT, A.B., 1911; B.S., 1914; M.S., 1915  
 ERNEST E DeTURK, B.S. (*Purdue University*) 1913; M.S. (*Pennsylvania State College*) 1916  
 ERNEST RUDOLPH SCHULZ, B.S., 1916; M.S., 1917

*In Botany*

ARTHUR SAMUEL COLBY, B.S. (*New Hampshire College*) 1911; M.S., 1915  
 WARREN ALBERT RUTH, A.B., A.M. (*Wabash College*) 1906, 1909

*In Chemistry*

CHARLES WILLIAM COLVER, B.S., M.S. (*University of Idaho*) 1909, 1911  
 LLOYD BRELSFORD HOWELL, A.B. (*Wabash College*) 1909; M.S., 1918  
 RALPH EMERSON RINDFUSZ, A.B., A.M. (*Oberlin College*) 1911, 1916  
 OTTO MITCHELL SMITH, B.S. (*Drury College*) 1907; M.S., 1918  
 ALLEN EDWIN STEARN, A.B., A.M. (*Stanford University*) 1915, 1916; M.S., 1917  
 LANSING SADLER WELLS, A.B. (*University of Montana*) 1915; A.M., 1917  
 HERBERT AUGUST WINKELMANN, B.S., A.B. (*North Western College*) 1915; M.S., 1915

*In History*

WALTER WILSON JENNINGS, A.B., A.M., 1915, 1916

*In Mathematics*

JESSIE MARIE JACOBS, A.B., (*McPherson College*), 1914; A.M. (*Kansas University*), 1916

*In Political Science*

ANDREW FRANKLIN HUNSAKER, A.B., A.M., 1909

*In Zoology*

JOSEPH KRAEKA, Jr., A.B., A.M. (*Lake Forest College*) 1914, 1915  
 GEORGE MARSH HIGGINS, B.S. (*Knox College*) 1914; A.M., 1916

*As of Earlier Class*

SAMUEL CECIL STANTON, B.S., 1880, M.D. (*Northwestern University*) 1892—(as of the Class of 1880)

# SCHOLARS AND FELLOWS, 1919-1920

---

MARGARET LOUISE ANDERSON, Scholar in English  
 BEULAH MAY ARMSTRONG, Fellow in Mathematics  
 JAMES CURTISS AUSTIN, Fellow in Classics  
 ANETTE BARON, Scholar-Assistant in Psychology  
 CLARENCE ARTHUR BERDAHL, Fellow in Political Science  
 LUCY HANMER BOOTH, Scholar in History  
 HAROLD FORDYCE CROOKS, Fellow in Geology  
 MIRIAM DOUGHERTY, Scholar in Bacteriology  
 LOUISE BURNHAM DUNBAR, Fellow in History  
 FOSTER FLOYD ELLIOTT, Scholar in Dairy Husbandry  
 CLARENCE ESHER ERFFMEYER, Scholar in Education (*Nominee of North-Western College*)  
 THEODORE HENRY FRISON, Fellow in Entomology  
 JAY HOWARD GAGE, Fellow in Entomology  
 ABBY LINSLEY GREGORY, Scholar in Classics, (*Rockford College Nominee*)  
 FREDERIKA GRACE GUERNSEY, Scholar in English (*Nominee of Hedding College*)  
 ELIZABETH PURSEL HACKLEY, Scholar in Education  
 ADA ROBERTA HALL, Fellow in Zoology  
 JOSEPH LOWE HALL, Scholar in Chemistry  
 LLOYD BLINN HAM, Scholar in Physics  
 VERNON LESLIE HARNACK, Scholar in Chemistry, American Pharmaceutical Association  
 JOSEPH BUNN HEIDLER, Scholar in English  
 AMOS HENRY HERSH, Fellow in Zoology  
 DUNCAN CHARTERIS HETHERINGTON, Scholar in Zoology  
 RALPH CRAIG HUFFER, Scholar in Mathematics  
 WILLIAM KING, Scholar in Economics  
 WILLIAM WALTER KITNER, Scholar in History  
 PAULUS JOHN HERMAN LANGE, Scholar in English  
 LESLIE RAY MARSTON, Fellow in Education  
 CARL SHIPP MARVEL, DuPont Fellow in Chemistry  
 EDWIN WHITAKER MATTOON, Fellow in Education  
 RUTH EVELYN MERLING, Fellow in Chemistry  
 LEE ELLIS MILES, Fellow in Botany  
 MILTON NELS NELSON, Fellow in Economics  
 CHARLES SHATTUCK PALMER, Scholar in Chemistry  
 ADOLPH FREDERICK PAULI, Fellow in Classics  
 BEULAH WISE PRANTE, Scholar in English  
 FRED STANLEY RODKEY, Fellow in History  
 ARTHUR WELLESLEY SECORD, Scholar in English  
 JEANNE SEIGNEUR, Scholar-Assistant in History  
 HERBERT FRANK SEIFERT, Fellow in Entomology  
 ELEANOR FRANCES SEILER, Fellow in Physics  
 MARY EDNA SHELLEY, Scholar in Romance Languages  
 LLOYD MILTON SHORT, Scholar in Political Science (*Nominee of Knox College*)  
 MATTIE FRANCES SIMMONDS, Scholar in English (*Nominee of Illinois Wesleyan University*)  
 DEENA AGNES SLOAN, Scholar in Home Economics, (*Nominee of College of Liberal Arts and Sciences*)  
 MADELENE REHINA SLOAN, Scholar in Home Economics, (*Nominee of College of Agriculture*)  
 ANGIE ALETA SMITH, Scholar in Classics  
 WILLIAM PERCIVAL SNYDER, Scholar in Botany  
 FENNER SATTERTHWAITE STICKNEY, Fellow in Entomology  
 RUTH OLIVIA STOMMEL, Scholar in English (*Nominee of Lake Forest College*)  
 WALTER HENRY STORER, Scholar in Romance Languages  
 LUELLE MARY STRAUCH, Scholar in Chemistry (*Nominee of Carthage College*)  
 MARY LUELLE TROWBRIDGE, Fellow in Classics  
 HAROLD BRADFORD TUKEY, Scholar in Horticulture  
 BERNHARD ALEXANDER UHLENDORF, Fellow in German  
 LYNNE HERMAN ULICH, Fellow in Chemistry  
 MARGARET WALKER, Scholar in Mathematics  
 ELLIS RUSSELL WEAVER, Scholar in Zoology  
 ROBERT BRUCE WEIRICK, Fellow in English  
 MARY WHITESIDE, Scholar in English, (*Nominee of Illinois Woman's College*)  
 SADA O YOSHIDA, Honorary Fellow in Zoology



# UNIVERSITY HONORS

Awarded by the Faculty of the University

## HONORS AT COMMENCEMENT

(June, 1919)

College of Liberal Arts and Sciences

### THE DEGREE OF A. B. WITH HONORS

ETHEL FRANCES CRATE, in English  
ANNA EDITH MARKS, in History  
JOSEPHINE NEWELL, in Sociology

WALTER RICHARD RYAN, in History  
LOIS FERNE SEYSTER, in English

### SPECIAL HONORS

College of Liberal Arts and Sciences

CLARENCE ELMIE BROEKER, in Chemistry  
GERALD JUDY COX, in Chemical Engineering  
ROBERT WORTHINGTON DAWLEY, in Chemical Engineering  
PAUL MEADE GINNINGS, in Chemistry

JOSEPH LOWE HALL, in Chemical Engineering  
VERNON LESLIE HARNACK, in Chemistry  
EDWARD TILLSON HOWELL, in Chemical Engineering  
ADOLPH FRIEDERICH THAL, in Chemistry  
ERNEST WILLIAM THIELE, in Chemical Engineering

### FINAL HONORS

College of Liberal Arts and Sciences

GERALD JUDY COX  
JOSEPH LOWE HALL  
CARL WESLEY NESBITT

JOSEPH NESBITT  
ERNEST WILLIAM THIELE

College of Commerce and Business Administration

KATIE LYDIA EDNA HUMRICHOUSE

VICTOR LOUIS KRANNERT

College of Engineering

FRED TYRON BOWDITCH  
ARTHUR DAVID CASKEY  
RALPH WHITE CORNELISEN  
CARL PHILIP DOWELL  
GEORGE THEODORE FELBECK  
WALTER JACOB GEIGER

KENNETH WILLIAM MILLER  
BENJAMIN EUGENE MITTELMAN  
CHARLES AUGUST NAGEL  
CRANDALL ZACHARIAH ROSECRANS  
CHAUNCEY BROCKWAY SCHMELTZER  
RUBEN STOCKENBERG

College of Agriculture

EMIL CLINE BENNETT  
THOMAS HUGH BROCK  
JEAN RIPLEY JOHNSON, MRS.

MADELENE REBINA SLOAN  
WILLIAM JOSEPH WERSTLER

Library School

JOSEPHINE AMANDA CUSHMAN

School of Music

RUTH DANIEL

### PRIZES

American Institute of Architects Medal

RICHARD JOHN CARLSON

The Francis John Plym Prize for Architectural Engineers

*Not Awarded*

The Scarab Competition in Architecture

HAROLD PHILBRICK BUCK

**The B'nai B'rith Prize***Not Awarded***The Phi Beta Kappa Prize**

WALTER RICHARD RYAN

**The St. Patrick's Day Prize**

LURA JEWELL

**The Bryan Prize**

WILLIAM KING

**The Thacher Howland Guild Memorial Prize**

LOIS FERNE SEYSTER

*Honorable Mention*—HAZEL FARKASCH**Conference Medal for Excellence in Scholarship and Athletics for the Year 1919**

GEORGE C BUCHHEIT

**The Chi Omega Prize**

ROBERT S EMERY

**Commissions as Brevet Captains in the National Guard of Illinois and as Second Lieutenants, Infantry, Officers' Reserve Corps, U.S.A.**HAROLD H. HOLTZMAN  
U P DORY,<sup>1919</sup>  
E C BENNETTADOLPH THAL  
R J TARBOX  
LOUIS S PAPPMEIER**The Hazelton Gold Medal**

JAY MERLE RIDER



# SUMMARY OF DEGREES CONFERRED

1919

## Degrees in the Graduate School

	Men	Women	Total
A.M.	8	19	27
A.M.—(January 8, 1919)	1	..	1
A.M.—(August 16, 1919)	2	2	4
A.M.—(October 6, 1919)	2	..	2
M.S.	11	2	13
M.S.—(August 16, 1919)	2	..	2
M.S.—(October 6, 1919)	3	..	3
C.E.	1	..	1
E.E.	3	..	3
M.E.	1	..	1
Ph.D.	16	1	17
Ph.D.—(as of earlier class)	1	..	1
<i>Total, Graduate School</i>	51	24	75

## Degrees in Liberal Arts and Sciences

A.B.—(with thesis)	2	6	8
A.B.—without thesis	24	108	132
A.B.—(February 1, 1919)	2	2	4
A.B.—(August 16, 1919)	3	4	7
A.B.—(October 6, 1919)	7	9	16
A.B.—Household Science	..	51	51
A.B.—Household Science (February 1, 1919)	..	2	2
A.B.—Household Science (August 16, 1919)	..	1	1
A.B.—Household Science (October 6, 1919)	..	6	6
B.S.—Liberal Arts	1	..	1
B.S.—Liberal Arts (with thesis)	..	1	1
B.S.—General course (February 1, 1919)	1	..	1
B.S.—Chemistry (with thesis)	10	1	11
B.S.—Chemistry (February 1, 1919)	1	..	1
B.S.—Chemistry (October 6, 1919)	6	..	6
B.S.—Chemical Engineering	10	..	10
B.S.—Chemical Engineering (October 6, 1919)	3	..	3
B.L.—(as of earlier class)	3	..	3
<i>Total, Liberal Arts and Sciences</i>	73	191	264

## Degrees in Commerce and Business Administration

A.B.	6	..	6
A.B.—(February 1, 1919)	1	..	1
A.B.—(August 16, 1919)	1	..	1
B.S.	19	3	22
B.S.—(February 1, 1919)	2	..	2
B.S.—(August 16, 1919)	8	1	9
B.S.—(October 6, 1919)	3	..	3
<i>Total, Commerce</i>	40	4	44

## Degrees in Engineering

B.S.—Architecture	7	..	7
B.S.—Architectural Engineering	2	..	2
B.S.—Ceramic Engineering	1	..	1
B.S.—Civil Engineering	18	..	18
B.S.—Civil Engineering (January 8, 1919)	1	..	1
B.S.—Electrical Engineering	19	..	19
B.S.—Electrical Engineering (October 6, 1919)	1	..	1
B.S.—Mechanical Engineering	16	..	16

B.S.—Municipal and Sanitary Engineering.....	4	..	4
B.S.—Railway Civil Engineering.....	3	..	3
B.S.—Railway Civil Engineering (February 1, 1919).....	1	..	1
B.S.—Railway Electrical Engineering.....	1	..	1
B.S.—Railway Mechanical Engineering.....	1	..	1
<i>Total, Engineering.....</i>	<u>45</u>	<u>..</u>	<u>45</u>

*Degrees in Architecture*

B.S.....	27	1	28
B.S.—(February 1, 1919).....	2	..	2
B.S.—(October 6, 1919).....	10	..	10
B.S.—Floriculture.....	4	1	5
B.S.—Landscape Gardening.....	1	4	5
B.S.—Household Science.....	..	12	12
B.S.—Household Science (February 1, 1919).....	..	2	2
B.S.—Household Science (August 16, 1919).....	..	1	1
<i>Total, Agriculture.....</i>	<u>44</u>	<u>21</u>	<u>65</u>

*Degrees in Library Science*

B.L.S.....	..	6	6
B.L.S.....	..	1	1
<i>Total, Library Science.....</i>	..	<u>7</u>	<u>7</u>

*Degrees in Music*

B. Mus.—with thesis.....	..	6	6
B. Mus.—(August 16, 1919).....	..	1	1
<i>Total, Music.....</i>	..	<u>7</u>	<u>7</u>

TOTAL, COLLEGES AND SCHOOLS AT URBANA.....	267	240	507
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*Degrees in Medicine*

B.S.....	57	2	59
B.S.—(January 8, 1919).....	4	..	4
B.S.—(August 16, 1919).....	3	..	3
M.D.....	7	2	9
M.D.—(January 8, 1919).....	1	..	1
M.D.—(February 1, 1919).....	38	..	38
<i>Total, Medicine.....</i>	<u>110</u>	<u>4</u>	<u>114</u>

*Degrees in Dentistry*

D.D.S.....	60	4	64
D.D.S.....	6	1	7
<i>Total, Dentistry.....</i>	<u>66</u>	<u>5</u>	<u>71</u>

*Degrees in Pharmacy*

Ph.C.....	4	..	4
Ph.G.....	12	..	12
<i>Total, Pharmacy.....</i>	<u>16</u>	<u>..</u>	<u>16</u>

TOTAL, COLLEGES AND SCHOOLS IN CHICAGO.....	192	9	201
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GRAND TOTAL.....	<u>459</u>	<u>249</u>	<u>708</u>
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# SUMMARY OF OFFICERS

## BY COLLEGES AND SCHOOLS

1919-1920

### OFFICERS OF INSTRUCTION

COLLEGES, SCHOOLS, AND DEPARTMENTS	PROFESSORS		ASSOCIATE PROFESSORS		ASSISTANT PROFESSORS		ASSOCIATES	
	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.
Liberal Arts and Sciences.....	58	..	11	..	29	..	19	1
Commerce and Business Admin- istration.....	4	..	..	..	6	..	1	..
Engineering.....	25	..	4	..	17	..	18	..
Agriculture.....	30	1	2	..	18	1	33	11
Music.....	1	..	..	..	2	..	..	..
Education.....	4	..	2	..	1	..	..	..
Law.....	6	..	..	..	2	..	..	..
Library.....	1	..	..	..	..	2	1	..
Military Science.....	1	..	..	..	5	..	..	..
Physical Education.....	2	1	..	..	2	..	4	..
Photography.....	..	..	..	..	..	..	..	..
<i>Totals at Urbana.....</i>	132	2	19	..	82	3	76	12
Medicine.....	21	..	12	..	22	..	29	..
Dentistry.....	10	..	3	..	5	..	3	..
Pharmacy.....	1	..	2	..	..	..	..	..
<i>Totals in Chicago.....</i>	32	..	17	..	27	..	32	..
<b>TOTALS IN UNIVERSITY.....</b>	<b>164</b>	<b>2</b>	<b>36</b>	<b>..</b>	<b>109</b>	<b>3</b>	<b>108</b>	<b>12</b>
<b>OFFICERS OF ADMINISTRATION</b>								
General.....	.....							
Library.....	.....							
<b>TOTAL, INSTRUCTIONAL AND ADMINISTRATIVE.....</b>								
<i>Deduct Duplicates:</i>								
Instructional Officers holding Administrative Positions.....								
Instructional Officers in Chicago holding more than one Position.....								
<b>NET TOTAL IN UNIVERSITY.....</b>								

# SUMMARY OF OFFICERS BY COLLEGES AND SCHOOLS

1919-1920

SPECIAL LECTURERS		INSTRUCTORS		ASSISTANTS		GRADUATE ASSISTANTS		STUDENT ASSISTANTS		TOTALS		Total
Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	Men	Wom.	
1	..	18	15	93	43	24	5	9	..	262	64	326
1	..	4	..	6	1	..	..	..	..	22	1	23
..	..	19	..	7	..	7	..	7	..	104	..	104
..	..	9	3	7	4	..	..	..	..	99	20	119
..	..	4	5	..	..	..	..	..	..	7	5	12
1	..	7	..	1	3	..	..	..	..	16	3	19
..	..	..	..	..	..	..	..	..	..	8	..	8
1	..	..	2	..	1	..	..	..	..	3	5	8
..	..	..	..	..	..	..	..	34	..	40	..	40
..	..	2	4	2	2	..	..	..	1	12	8	20
..	..	1	..	..	..	..	..	..	..	1	..	1
4	..	64	29	116	54	31	5	50	1	574	106	680
3	..	31	4	31	2	..	..	..	..	149	6	155
1	..	14	2	..	2	..	..	5	1	41	5	46
..	..	3	1	1	2	..	..	..	..	7	3	10
4	..	48	7	32	6	..	..	5	1	197	14	211
8	..	112	36	148	60	31	5	55	2	771	120	891
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	51	6	57
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	33	38
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	..	..	986
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	3	28
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15	..	15
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	787	156	943

# SUMMARY OF STUDENTS

1919-1920

College and Course	Seniors			Juniors			Sophomores		
	Men	Wom.	Total	Men	Wom.	Total	Men	Wom.	Total
<b>LIBERAL ARTS AND SCIENCES</b>									
General.....	53	124	177	69	156	225	76	197	273
Journalism.....	11	...	11	13	11	24	21	13	34
Preparatory to Law.....	3	...	3	13	1	14	30	1	31
Economic Entomology.....	...	...	...	...	...	...	...	...	...
Preparatory to Medicine.....	6	...	6	14	...	14	47	1	48
Home Economics.....	...	54	54	...	45	45	...	50	50
Chemistry.....	25	5	30	25	6	31	34	6	40
Chemical Engineering.....	35	...	35	33	...	33	67	...	67
Totals.....	133	183	316	167	219	386	275	268	543
<b>COMMERCE &amp; BUSINESS ADMINISTRATION</b>									
General Business.....	72	4	76	115	14	129	223	16	239
Commercial and Civic Sec.....	...	3	3	2	...	2	...	3	3
Banking.....	9	...	9	10	...	10	7	1	8
Insurance.....	1	...	1	2	...	2	3	...	3
Accountancy.....	16	...	16	11	5	16	14	...	14
Railway Administration.....	5	...	5	5	...	5	4	1	5
Railway Transportation.....	...	...	...	2	...	2	1	...	1
Commercial Teachers.....	...	...	...	...	...	...	...	...	...
Foreign Commerce.....	2	1	3	8	...	8	11	...	11
Industrial Administration.....	4	...	4	21	...	21	18	...	18
Commerce and Law.....	...	...	...	4	...	4	6	...	6
Totals.....	109	8	117	180	19	199	287	21	308
<b>EDUCATION</b>									
General.....	2	1	3	7	10	17	...	...	...
Athletic Coaching.....	...	...	...	3	...	3	5	...	5
Teacher Training (Smith-Hughes).....	...	...	...	...	...	...	...	...	...
Home Economics.....	...	...	...	...	1	1	...	...	...
Totals.....	2	1	3	10	11	21	5	...	5
<b>ENGINEERING</b>									
Architecture.....	21	...	21	20	...	20	13	1	14
Architectural Engineering.....	21	...	21	30	...	30	26	...	26
Ceramic Engineering.....	7	...	7	5	...	5	7	...	7
Civil Engineering.....	36	...	36	44	...	44	69	...	69
Electrical Engineering.....	34	...	34	62	...	62	81	...	81
Mechanical Engineering.....	39	...	39	64	1	65	107	...	107
Mining Engineering.....	4	...	4	9	...	9	11	...	11
Mun. and San. Engineering.....	2	...	2	4	...	4	4	...	4
Railway Civil Engineering.....	1	...	1	1	...	1	4	...	4
Railway Electrical Engineering.....	6	...	6	5	...	5	3	...	3
Railway Mechanical Engineering.....	...	...	...	...	...	...	2	...	2
General Engineering Physics.....	...	...	...	...	...	...	1	...	1
Totals.....	171	...	171	244	1	245	328	1	329
<b>AGRICULTURE</b>									
General.....	110	2	112	125	2	127	154	3	157
Farm Organization and Management.....	10	...	10	10	...	10	10	...	10
Floriculture.....	4	...	4	3	1	4	4	1	5
Landscape Gardening.....	5	2	7	16	3	19	6	7	13
Home Economics.....	...	15	15	...	16	16	...	12	12
Teacher Training (Smith-Hughes).....	...	...	...	...	...	...	...	...	...
Agriculture.....	2	...	2	3	...	3	...	...	...
Home Economics.....	...	...	...	...	...	...	...	...	...
Special Vocational.....	...	...	...	...	...	...	...	...	...
Totals.....	131	19	150	157	22	179	174	23	197
<b>MUSIC</b>									
.....	1	6	7	1	17	18	...	7	7
TOTAL UNDERGRADUATES.....	547	217	764	759	289	1048	1069	320	1389
<b>LAW</b>									
3 year curriculum.....	...	...	...	6	...	6	15	3	18
4 year curriculum.....	...	...	...	2	...	2	8	...	8
Totals.....	...	...	...	8	...	8	23	3	26
<b>LIBRARY SCHOOL</b>									
.....	...	...	...	...	...	...	3	9	12
<b>TOTALS, UNDERGRADUATES AND PROFESSIONAL STUDENTS AT URBANA.....</b>									
<b>GRADUATE SCHOOL.....</b>									
<b>Deduct Duplicates<sup>4</sup>.....</b>									
<b>TOTALS AT URBANA, WINTER SESSION.....</b>									



# SUMMARY OF STUDENTS

## 1919-1920

Freshmen			Irregular <sup>1</sup>			Special			Soldier <sup>2</sup>	Vocational <sup>3</sup>	Totals		
Men	Wom.	Total	Men	Wom.	Total	Men	Wom.	Total	Special	Special	Men	Wom.	Total
214	442	656	1	8	9	17	29	46	3	...	433	956	1389
40	35	75	...	...	...	2	1	3	...	...	87	60	147
80	1	81	...	...	...	2	...	2	...	...	128	3	131
1	...	1	...	...	...	...	...	...	...	...	1	...	1
107	...	107	...	1	1	1	2	3	...	...	175	4	179
...	134	134	...	...	...	1	...	1	...	...	1	283	284
52	4	56	...	...	...	1	...	1	2	...	139	21	160
120	...	120	...	...	...	1	...	1	...	...	256	...	256
614	616	1230	1	9	10	25	32	57	5	...	1220	1327	2547
672	77	749	...	3	3	27	2	29	5	...	1114	116	1230
...	4	4	...	...	...	...	...	...	...	...	2	10	12
14	...	14	...	...	...	...	...	...	...	...	40	1	41
4	...	4	...	...	...	...	...	...	...	...	10	...	10
44	1	45	...	...	...	1	...	1	...	...	86	6	92
10	...	10	...	...	...	...	...	...	...	...	24	1	25
4	...	4	...	...	...	1	...	1	...	...	8	...	8
...	2	2	...	...	...	1	...	1	...	...	1	2	3
38	1	39	...	...	...	...	...	...	...	...	59	2	61
31	...	31	...	...	...	...	...	...	1	...	75	...	75
21	...	21	...	...	...	...	...	...	...	...	31	...	31
838	85	923	...	3	3	30	2	32	6	...	1450	138	1588
...	...	...	1	...	1	...	...	...	...	...	10	11	21
50	...	50	...	1	1	4	...	4	2	...	65	...	65
...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	1	1
50	...	50	2	...	2	4	...	4	2	...	75	12	87
54	9	63	...	1	1	1	...	1	...	...	109	11	120
76	...	76	1	...	1	2	...	2	...	...	156	...	156
25	...	25	...	...	...	2	...	2	...	...	46	...	46
198	1	199	...	...	...	1	...	1	2	...	350	1	351
267	...	267	...	...	...	8	...	8	3	...	455	...	455
308	1	309	...	...	...	4	...	4	4	...	526	2	528
36	...	36	...	...	...	1	...	1	...	...	61	...	61
2	...	2	...	...	...	...	...	...	...	...	12	...	12
4	...	4	...	...	...	...	...	...	...	...	10	...	10
6	...	6	...	...	...	...	...	...	...	...	20	...	20
4	...	4	...	...	...	...	...	...	...	...	6	...	6
2	...	2	...	...	...	...	...	...	...	...	3	...	3
982	11	993	1	1	2	19	...	19	9	...	1754	14	1768
450	9	459	4	1	5	64	...	64	1	...	908	17	925
10	1	11	...	...	...	...	...	...	...	...	40	1	41
11	...	11	...	...	...	...	...	...	...	...	22	2	24
12	6	18	...	...	...	3	...	3	...	...	42	18	60
...	48	48	...	1	1	...	8	8	...	...	...	100	100
...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	2	2	...	...	...	...	...	...	...	...	5	...	5
...	...	...	...	...	...	...	...	...	...	...	...	2	2
...	...	...	...	...	...	...	...	...	...	58	58	...	58
483	66	549	4	2	6	67	8	75	1	58	1075	140	1215
...	42	42	3	5	8	2	35	37	...	...	7	112	119
2967	820	3787	11	20	31	147	77	224	23	58	5581	1743	7324
First Year													
45	...	45	...	...	...	12	2	14	...	...	78	5	83
16	...	16	...	...	...	...	...	...	...	...	26	...	26
61	...	61	...	...	...	12	2	14	...	...	104	5	109
4	14	18	...	...	...	1	3	4	...	...	8	26	34
											5693	1774	7467
											292	88	380
											8	...	8
											5977	1862	7839

## SUMMER SESSION, 1919

Undergraduates.....									
Graduates.....									
<i>Total, Summer Session.....</i>									
<i>Deduct Duplicates<sup>1</sup>.....</i>									
<b>NET TOTAL (Summer Session Only).....</b>									
<b>TOTAL AT URBANA TO MARCH 18, 1920.....</b>									
<b>MEDICINE (Chicago).....</b>	<b><i>Fourth Year</i></b>			<b><i>Third Year</i></b>			<b><i>Second Year</i></b>		
Graduate Work in Medical Sciences.....									
Curriculum in Medicine.....	81	3	84	69	3	72	43	7	50
<i>Total, Medicine.....</i>									
DENTISTRY (Chicago).....	14	1	15	28	...	28	37	4	41
PHARMACY (Chicago).....				3	1	4	44	4	48
<b>TOTAL IN CHICAGO.....</b>									
<i>Deduct Duplicates<sup>2</sup>.....</i>									
<b>TOTAL IN UNIVERSITY, TO MARCH 18, 1920.....</b>									

<sup>1</sup>Students holding bachelor's degrees but taking undergraduate work.<sup>2</sup>Discharged soldiers and sailors admitted by special provision.<sup>3</sup>Subcollegiate students under the auspices of the Federal Board for Vocational Education.<sup>4</sup>Individuals who were registered part of the year as undergraduates and part of the year as graduate students.<sup>5</sup>Summer students who registered also during the following winter session.<sup>6</sup>Graduate students in Medicine registered both in the Graduate School and the College of Medicine.

.....	690	454	1144
.....	126	44	170
.....	816	498	1314
.....	469	145	614
.....	347	353	700
.....	6324	2215	8539
<i>First Year</i>			
.....	3	...	3
94 5 99	287	18	305
.....	290	18	308
104 4 108	187	9	196
105 7 112	196	13	209
.....	673	40	713
.....	3	...	3
.....	6994	2255	9249

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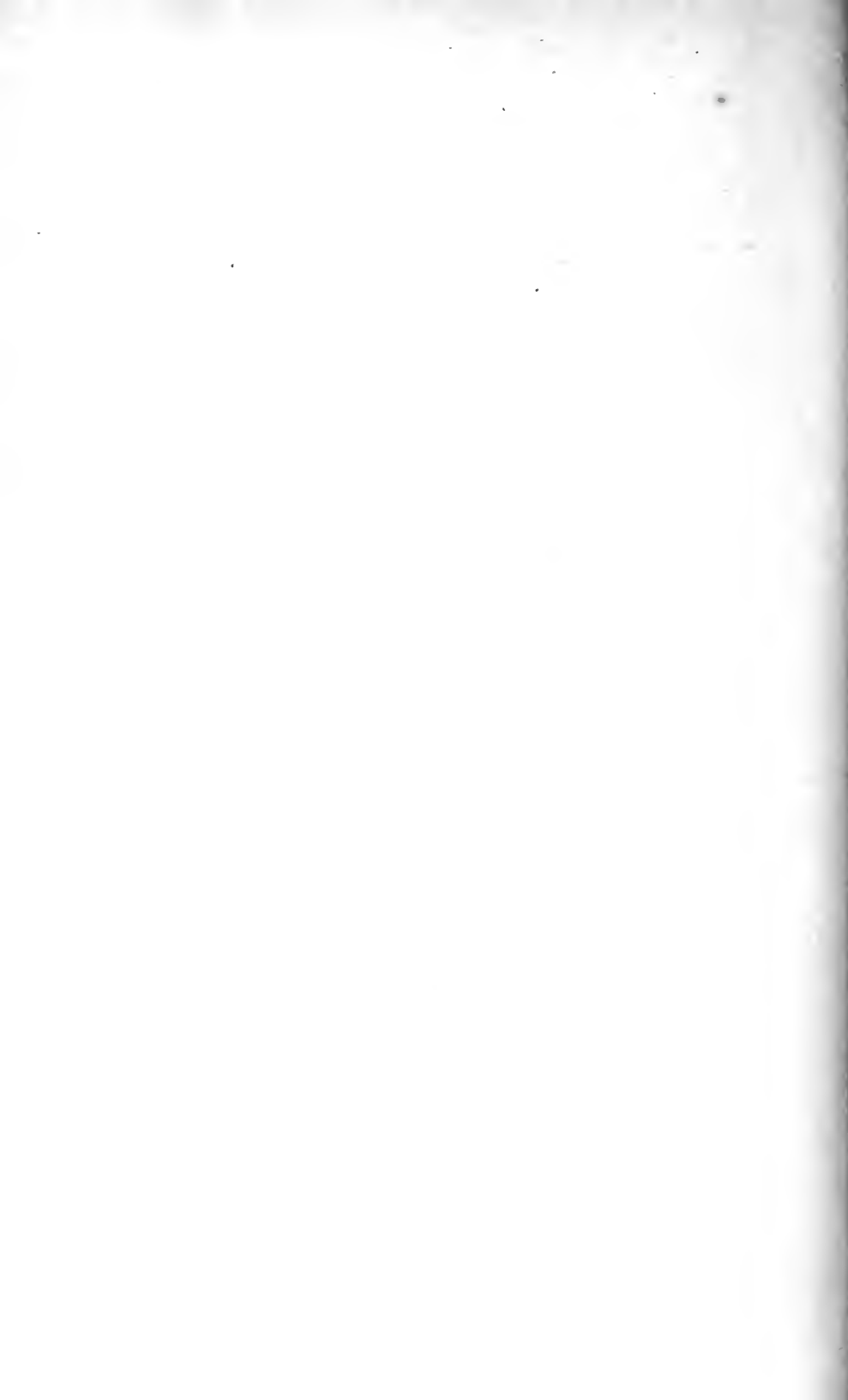
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